

STATE OF IOWA  
1923

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REPORT OF THE

**State Highway Commission**

FOR THE  
**Year Ending December 1, 1923**

ISSUED BY THE  
**STATE HIGHWAY COMMISSION**  
AMES, IOWA

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J. W. HOLDEN, Chairman  
WM. COLLINSON,  
ANSON MARSTON,  
State Highway Commissioners

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F. R. WHITE, Chief Engineer

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# LETTER OF TRANSMITTAL

HON. N. E. KENDALL, Governor:

Pursuant to the provisions of Section 1527-s2, Supplemental Supplement to the Code, 1915, the State Highway Commission presents herewith Part One of its Tenth Annual Report. This part of the report covers the principal operations of the commission for the year December 1, 1922 to November 30, 1923.

Part Two of this report will contain a summary of the annual reports of the county engineers for the year January 1, 1923 to December 31, 1923. It will be presented later as the law provides.

J. W. HOLDEN, Chairman.

W. COLLINSON,

ANSON MARSTON,

Commissioners.

Ames, Iowa, December 30, 1923.

## PART I

### CHAPTER I

#### Summary

#### The Tenth Annual Report.

The tenth annual report of the State Highway Commission is divided into two parts.

Part One is a report of the work of the Commission and of construction and maintenance work on the primary road system and expenditures therefor, for the year ending November 30, 1923, and a report of the expenditures of the Commission for the fiscal year ending June 30, 1923.

Part Two is a summary of the annual reports of the county engineers for the year ending December 31, 1923.

#### Construction Work Accomplished.

The following amounts of the various classes of road and bridge work on the primary road system were completed during 1923:

Paving .....	100.7 Miles
Graveling .....	443.8 Miles
Grading .....	837.5 Miles
Tile Drains .....	2,161,741 Lin. Ft.
Bridges and Culverts.....	1,815

A comparison of the construction work accomplished each year since the primary road law was passed, follows:

Year	Paving Miles	Graveling Miles	Grading Miles	Tile Drains Lin. Ft.	Bridges and Culverts
1919 .....	4.3	3.0	140.0	125,961	.....
1920 .....	46.0	102.5	400.8	1,196,700	.....
1921 .....	165.4	367.7	1,060.9	5,416,528	.....
1922 .....	191.4	432.0	1,069.7	3,060,962	2,106
1923 .....	100.7	413.8	837.5	2,161,741	1,815

On December 1, 1923, the following uncompleted work was under contract:

Paving .....	33.7 Miles
Graveling .....	59.2 Miles
Grading .....	149.9 Miles
Tiling .....	523,005 Lin. Ft.
Bridges and Culverts.....	282

This work will be carried over into the 1924 construction season.

**Expenditures for Construction.**

The expenditure for construction work on the primary road system during 1923 was \$12,663,736.53, as follows:

Grading .....	\$ 4,733,548.81
Graveling .....	1,128,591.57
Paving .....	3,211,385.32
Drainage .....	434,857.12
Bridges and Culverts .....	2,082,579.63
Guardrail .....	242,961.13
Right-of-way .....	288,204.42
Machinery and Equipment .....	4,035.28
Engineering .....	537,573.25
<b>Total .....</b>	<b>\$12,663,736.53</b>

The following is a comparison of the construction expenditures for each year since the primary road law was enacted:

1919 .....	\$ 741,313.73
1920 .....	4,906,404.96
1921 .....	15,500,523.64
1922 .....	13,324,555.14
1923 .....	12,663,736.53
<b>Grand Total .....</b>	<b>\$47,136,534.00</b>

**Expenditures for Maintenance.**

The maintenance of the primary road system from December 1, 1922 to December 1, 1923, cost \$2,420,900.25 or an average of \$364.23 per mile. The average cost of maintaining the different types of road during said period was as follows:

Pavement .....	\$131.00 per mile
Gravel .....	441.00 per mile
Earth .....	318.00 per mile

The following is a comparison of the expenditure for maintenance for each year since this work has been paid out of the primary road fund:

1920 .....	\$ 614,296.71*
1921 .....	2,264,692.31
1922 .....	2,444,664.54
1923 .....	2,420,900.25
<b>Total .....</b>	<b>\$7,744,554.01</b>

\*Includes only one-half year. Primary road funds began to be used for maintenance of primary system on July 1, 1920.

**Condition of Primary Road System.**

On December 1, 1923, the condition of the primary road system was as follows:

Paved .....	419.1 Miles
Graveled .....	1,889.4 Miles
Built to finished grade but not surfaced ..	2,001.2 Miles
Not built to finished grade .....	2,337.9 Miles
<b>Total .....</b>	<b>6,646.6 Miles</b>

One can now travel from Des Moines to the county seats of thirty-six counties by direct route, and be on gravel or pavement all of the way.

**Cost of Engineering and Administration.**

Since the first law was enacted (in 1917) accepting federal aid, \$56,627,122.99 has been expended on the primary road system under the Commission's supervision. This expenditure is classified as follows:

Construction .....	\$45,363,914.08
Maintenance .....	7,744,554.01
Engineering and Administration .....	3,518,654.90
<b>Total .....</b>	<b>\$56,627,122.99</b>

The expenditure for engineering amounts to six and twenty-one hundredths (6.21%) per cent of the total expenditure. This expenditure includes every item of engineering and overhead expense of every nature incurred by the Commission because of this work.

**Cost of the Commission.**

During the fiscal year the total salaries and expenses for all three members of the Commission was \$4,802.22 as follows:

	Salary	Expense	Total
J. W. Holden .....	\$1,140.00	\$97.22	\$1,237.22
William Collins .....	1,200.00	792.40	2,992.40
Amos Marston .....		63.60	63.60
Motor transportation .....		88.00	88.00
<b>Total .....</b>	<b>\$2,340.00</b>	<b>\$1,772.22</b>	<b>\$4,802.22</b>

**Payments Made by Government.**

Prior to December 1, 1922, the government had paid \$7,457,548.49 to the state in aid of road work. During 1923 the government paid to the state \$2,569,634.48. The total payments by the



government to December 1, 1923 amount to \$10,027,182.97. Of the total amount of federal aid (\$11,444,131.04) allotted to the state prior to December 1, 1923, \$1,416,948.07 is still in the hands of the federal treasurer at Washington. In addition to this sum, Iowa's balance of federal aid authorized by Congress in a bill passed in June, 1922 will be approximately \$4,000,000.00, making a total of approximately \$5,500,000.00 coming to this state under existing federal laws.

#### Federal Aid Funds Obligated.

If project agreements are not executed obligating federal aid funds, within two years after the close of the fiscal year during which such funds become available, such funds revert to the federal government. Under these conditions, Iowa must have obligated \$13,257,888.67 of federal aid funds by July 1, 1925. Up to December 1, 1923, one hundred eighty-five project agreements had been signed with the Secretary of Agriculture, obligating \$11,741,659.39 of federal aid, leaving \$1,516,229.28 which must be obligated by July 1, 1926. At the present rate these funds will be obligated in sufficient time to prevent their reverting to the government.

#### Tests of Materials.

In connection with the construction work carried on during 1923, tests and inspections have been made on 18,658 samples of materials. The amounts of the various kinds of materials represented by these samples are as follows:

Sand, gravel and stone.....	717,912 Tons
Cement .....	694,918 Bbls.
Steel .....	5,137 Tons
Paving brick .....	742,000
Tile .....	2,208,356 Lin. Ft.

#### Bridge Surveys and Plans.

Field surveys have been made for 2,540 bridges and culverts. Plans have been prepared for 2,167 bridges and culverts estimated to cost \$2,600,023.00. Plans have been checked and approved for 251 bridges and culverts estimated to cost \$667,000.00. A comparison of this work during the past six years follows:

Year	Field Surveys Made	Plans Prepared		Plans Approved		Shop Drawings Approved
		No.	Estimated Cost	No.	Estimated Cost	
1918 .....	236	1	1,208,000.00	163	\$ 634,000.00	79
1919 .....	1,232	536	1,481,300.00	367	852,900.00	86
1920 .....	1,376	1,071	3,025,000.00	400	1,672,417.00	102
1921 .....	1,624	3,225	4,606,940.00	422	723,264.00	126
1922 .....	3,625	3,577	3,823,323.00	194	400,000.00	126
1923 .....	2,540	2,167	2,600,023.00	251	667,000.00	126

#### Road Surveys and Plans.

During 1923 detailed surveys were made for the improvement of 499 miles of the primary road system. Plans were prepared for 946 miles of the primary road system, and plans prepared by the county engineers for 139 miles of secondary road were checked and approved. Surveys have now been completed for a total of 5,087 miles or seventy-seven per cent of the primary system. Plans have been completed for 5,963 miles or ninety per cent of the primary road system. Surveys of the primary road system in forty-two counties are completed.

A comparison of the mileage of surveys and plans for the past seven years follows:

Year	Primary Roads		Secondary Road Plans Checked and Approved
	Surveys	Plans	
1917 .....	128 Miles	4 Miles	800 Miles
1918 .....	389 "	513 "	321 "
1919 .....	1,063 "	387 "	381 "
1920 .....	1,089 "	1,164 "	415 "
1921 .....	1,465 "	1,455 "	394 "
1922 .....	969 "	1,794 "	251 "
1923 .....	499 "	946 "	139 "

#### Bridge and Road Contracts.

Bridge, road, and material contracts were checked for approval. These contracts are classified as follows:

	No. of Contracts	Amount of Contracts
Bridge and culvert work.....	222	\$ 2,266,229.00
Bridge and culvert materials.....	48	"
Primary road work .....	300	6,293,974.00
Primary road work in cities.....	12	535,300.00
Secondary road projects involving primary road funds.....	5	11,620.00
Secondary road districts .....	21	118,546.00
County road work .....	43	526,712.00
Totals .....	741	\$ 10,788,430.00

Four of the above bridge and road contracts amounting to \$336,237.00 were disapproved. The remainder were approved. A comparison of the contracts checked for approval for the past seven years, follows:



Year	Bridge and Culvert Contracts		No. of Mtl. Contracts	Primary Road Contracts		Secondary Road Contracts	
	No.	Amount		No.	Amount	No.	Amount
1917	197	\$ 2,179,000	50	1	\$ 90,492	35	\$ 634,993
1918	173	1,760,800	56	6	186,571	28	290,794
1919	273	3,213,800	35	29	1,139,222	37	525,450
1920	228	4,307,100	53	207	12,212,020	62	876,081
1921	267	4,662,103	40	433	7,969,488	94	727,005
1922	301	3,759,193	44	465	9,227,810	74	459,707
1923	252	3,295,259	48	360	6,283,974	60	673,807

#### Road Plans, Specifications, and Estimates Submitted.

Plans, specifications, and estimates for one hundred thirty-eight projects involving the improvement of 1,043.4 miles of primary road at an estimated cost of \$9,561,678.28 were submitted to the federal government and the boards of supervisors for approval. Thirty-four of these projects estimated to cost \$6,017,075.46, were federal aid projects. The remainder were primary road projects.

#### Projects Approved.

During 1923, the Commission approved one hundred two projects involving the improvement of 696.7 miles of road at an estimated cost of \$4,637,134.10. Eighty-three of these projects including 640 miles and estimated to cost \$3,895,124.62 were on the primary road system. Eleven of these projects including 13.9 miles and estimated to cost \$568,067.46 were on extensions of primary roads within cities. Eight projects involving the improvement of 42.8 miles, estimated to cost \$173,942.02 were on the secondary roads and involved the expenditure of primary road funds as provided by Chapter 89 of the 40th General Assembly.

#### Government Equipment Received.

During 1923, government equipment valued at \$321,853.75 was received. The total value of all government equipment received to December 1, 1923, is \$4,363,054.75.

During the past year, government equipment has been issued to the counties and various state departments as follows:

Counties .....	\$171,373.00
Board of Control.....	53,942.00
Board of Conservation.....	355.00
State College .....	3,158.43
State University .....	408.00

The government equipment has cost the state in freight, storage, receipt, handling, buildings, and land where buildings are located, a total of approximately \$372,318.00 or eight and five-tenths (8.5%) per cent of its value. Of this amount, \$102,600.00 has been invested in land and storage buildings, which constitute a permanent plant for the Commission's mechanical equipment.

#### Railroad Crossing Work.

Plans were prepared for forty-one railroad crossing projects. Eight projects have been satisfactorily adjusted, and agreements reached between the railroad companies and the public, regarding division of cost. The division of cost of railroad crossing work as between the public and the railroad company, is determined separately for each individual crossing project. The particular conditions affecting the cost of each project are taken into account in determining the division of the cost of that project. Sometimes the railroad pays the major portion of the cost, and sometimes the public bears the major portion of the cost. Taking into consideration the division of the cost on all projects that have been adjusted, the cost has been split about equally between the public and the railroads.

The progress in grade crossing elimination on the primary road system is well illustrated by the following:

Number of grade crossings on primary system as established in 1919.....	665
Number of grade crossings on primary system as now established (1923) .....	465
Number of grade crossings eliminated.....	200

The greater portion of these two hundred grade crossings have been eliminated by relocation of primary roads.

#### Bonds and Certificates in Anticipation of Primary Road Fund.

On December 1, 1923 there were \$7,497,000.00 of primary road bonds and \$3,591,000.00 of primary road anticipation certificates outstanding. These bonds had been issued by eleven counties. The certificates had been issued by fifty-seven counties. (See Schedules No. 77 and 78).



## CHAPTER II

### Recommended Legislation

Since the present session of the Legislature is a special session called for the purpose of revising the Code, the Commission is making no new legislative recommendations at this time. This chapter for this year is devoted to a brief review of the road legislation by the regular session of the Fortieth General Assembly.

#### Right-of-Way for Primary Roads.

##### (a) Payment.

Chapter 84, 40th General Assembly, authorizes the use of primary road funds in payment for right-of-way on the primary road system. Also, this chapter authorizes reimbursement from the primary road fund to counties for right-of-way heretofore purchased (since Chapter 237, 38th General Assembly became effective) for the improvement of the primary road system.

##### (b) Right-of-Way in towns and cities less than 2,500.

Chapter 87 of the 40th General Assembly authorizes the board of supervisors to purchase or condemn right-of-way for the improvement of the primary roads through towns and through cities having a population less than twenty-five hundred, and authorizes the payment of said right-of-way out of the primary road fund.

#### Special Assessments for Paving.

Chapter 85, 40th General Assembly, reduces the special assessments for paving from twenty-five per cent of the cost of such paving to twelve and one-half per cent of such cost, and provides for the reimbursement of one-half of paving assessments heretofore levied for the improvement of the primary roads.

#### Gasoline Tax.

The 40th General Assembly passed a bill providing for the levying of a gasoline tax of two cents per gallon. One-third of the proceeds of such tax was to go to the primary road fund and two-thirds of such proceeds were to go to the secondary road fund. The bill was vetoed by the Governor.

#### Purchase of Land for Truck Sheds.

Chapter 329, 40th General Assembly, authorizes the State Highway Commission to purchase eighteen acres of ground in the city

of Ames where the truck sheds for excess war equipment are located. The amount authorized to be paid for such land was twelve thousand dollars.

#### Office Building for State Highway Commission.

Chapter 328 of the 40th General Assembly, provides for the construction of an office building for the State Highway Commission, such building to be located in the city of Ames on ground donated by the citizens of Ames.

#### Anticipation of County Revenues.

Chapters 104 and 105, 40th General Assembly, prohibit the anticipation of county revenues except for certain specific expenditures set forth in said chapter. Largely speaking, this act will eliminate the practice of exceeding revenues in various county funds, and then refunding said indebtedness by the issuance of bonds.

#### Motor Vehicles as Common Carriers.

Chapter 97 of the 40th General Assembly, provides for the regulation of motor vehicles used as common carriers, and for the levying of a special tax or license on such vehicles. The administration of this act is placed in the hands of the State Railroad Commission.

#### Condemnation of Land for Road Purposes.

Chapters 80 and 81 of the 40th General Assembly, revise the method of choosing juries for the condemnation of land for road purposes. Under these statutes, the property owner chooses one member of the condemnation jury, the county board chooses one member of the condemnation jury, and these two appoint the third member.

#### Employment of County Engineer.

Chapter 82 of the 40th General Assembly makes it optional with the board of supervisors to employ a county engineer. Heretofore the law has required each county to employ an engineer.

#### Serving Notice of Special Assessments.

Chapter 86 of the 40th General Assembly amends the primary road law with respect to serving notice of special assessments so as to cause such notice to be served by publication.

**Hard Surfacing of Primary Roads Through Towns.**

Chapter 88, 40th General Assembly, authorizes the construction of pavements on extensions of primary roads through towns, even though the county in which said town may be located has not voted favorably on the hard surfacing of the primary road system.

**Use of Primary Road Funds on Secondary Roads.**

Chapter 89 of the 40th General Assembly, authorizes the use of excess primary road funds accruing to any county in the improvement of the secondary roads of that county whenever all the primary roads of that county have been graded, drained, and surfaced with gravel or other surfacing approved by the State Highway Commission.

**Secondary Road Districts Within Towns and Cities Having a Population of Thirty-five Hundred.**

Chapter 90 of the 40th General Assembly authorizes the formation of road assessment districts for the purpose of improving extensions of secondary roads within towns and within cities having a population not in excess of thirty-five hundred.

**Removal of Billboards.**

Chapter 91 of the 40th General Assembly authorizes the boards of supervisors or Highway Commission to remove billboards or advertising signs which obstruct the view of any portion of a public highway or railroad track in such manner as to render dangerous the use of the public highway.

**CHAPTER III****Executive Department****Appointments of Commissioners.**

During the year fifty-four formal meetings of the Commission were held, of which fifty were attended by Commissioner Holden, forty-seven by Commissioner Collinson, and thirty-nine by Commissioner Marston.

The Commissioners spent a total of one hundred twenty-six days on inspection trips in the several counties and in conferring with county boards of supervisors, township trustees, and other road officials. Twenty-five of the ninety-nine counties were visited.

Employees of the Executive Department spent a total of eighty-three days on assignments outside the general office.

**Tenth Annual Road Conference.**

The tenth annual conference of road officers was held in Ames on March 21, 22, and 23, 1923. This meeting was attended by seventy county engineers, six assistant county engineers, one hundred ninety-one county supervisors, twenty-eight county auditors, one township trustee, one township clerk, and one road foreman. There was a total enrollment of two hundred ninety-eight. Eighty-seven of the ninety-nine counties were represented.

**Litigation.**

The Commission has been made a party to two new law suits; one in Appanoose County and one in Washington County. Each of these cases grew out of the condemnation of right-of-way for road purposes. In neither of these cases was the Commission the principal defendant. We were simply named as co-defendants with the county and others for the reason that the right-of-way which it was sought to acquire was for the improvement of the primary roads.

The case of Story County versus the State Highway Commission, which was mentioned in our report a year ago, has not been brought to trial.

**Publications.**

During the year six issues of the regular Service Bulletin were published. Fifty-two weekly reports of road and bridge lettings were issued and published. Twenty-five weekly road condition maps were issued.



The following additional publications were issued:

Revised specifications for highway bridges and bridge material.  
Revised specifications for primary road work.

Specifications for city paving projects on primary road extensions.

Revised edition of Primary Road Guide.

Primary and Secondary Road Laws of Iowa.

#### Modification of Primary Road System.

The law provides that the primary road system may be changed,

- (a) for more efficient service,
- (b) for more economical construction,
- (c) to afford access to cities, towns, and villages,
- (d) to afford access to state parks and recreation centers.

During the past year, twenty-one changes or modifications have been made in the primary road system of seventeen counties. The greater number of these modifications have consisted of correcting the maps where relocations of primary roads have been made to avoid bad turns, railroad crossings, or steep grades. The modifications made have resulted in a net increase in the primary road system of thirty-one and three-tenths miles. The total mileage of the system now is six thousand six hundred forty-six and six-tenths miles.

#### Modification of County Road System.

The Commission acted on seventy-eight requests from the county boards for modifications of the county road systems. Sixty-three of these requests were approved, and fifteen were disapproved or deferred. The sixty-three requests which were approved resulted in an increase of one hundred forty and forty-five one hundredths miles in the county road system.

#### State Fair Exhibit.

The usual highway exhibit was maintained at the State Fair.

#### Registration of Highway Routes.

During 1923 four highway routes were registered with the Commission, under the provisions of Section 3021 of the Compiled Code, as follows:

Whiteway 7 Highway,  
Herbert Hoover Highway,  
Atlantic-Yellowstone-Pacific Highway,  
Cedar Rapids-Urbana-Independence Short Line.

#### Construction of Office Building.

Chapter 328 of the 40th General Assembly directs the Commission to construct an office building as funds therefor may be available in any unexpended balances in the Commission's support fund, and authorizes the location of said building on ground adjacent to the sheds where the government equipment is stored, if the citizens of Ames should donate such land. Promptly after the enactment of this statute, the citizen of Ames raised \$16,500.00 by popular subscription and purchased a tract of five acres in the city of Ames immediately west of the truck sheds. This tract of ground has a frontage of two hundred forty feet on Lincoln Way and is nine hundred eight feet in depth. It was presented to the state to be used as a site for the new office building of the Commission.

On July 10, 1923, bids were received and contract were let for said office building as follows:

General Contract (including terrazzo floors in corridors) .....	\$104,344.00
Plumbing and Heating .....	11,794.00
Wiring .....	2,490.00
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Total Amount of Contracts .....	\$118,628.00
Architects' fees (approximately) .....	3,600.00
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Total .....	\$122,228.00
Deduct amount of saving on brick .....	720.00
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Net total .....	\$121,508.00

As the work progressed, some modifications were made in the plans, which have resulted in extra cost amounting to \$2,010.00, thus increasing the net total cost to \$123,518.00.

The building is one hundred sixty feet long by sixty feet wide and three stories in height. It will provide sufficient space for all of the Commission's force located at Ames, thus releasing to the College all of the space now occupied by the Commission in the engineering buildings at the College. Construction work has progressed to such an extent that the building is now enclosed. It should be completed and ready for occupancy about May 1, 1924.

#### Organization of the Commission.

On December 1, 1923, there were three hundred seventy-four people on the Commission's force, exclusive of the Commissioners and temporary and part-time help. One year ago the force consisted of two hundred seven people, exclusive of the Commissioners



and temporary and part-time help. This increase in the size of the force on December 1, 1923, over December 1, 1922 (167) is due to the fact that in 1922 on account of weather conditions, the field work had nearly all been shut down by December 1st and the field force had nearly all been laid off, while in 1923 the weather was so mild that on December 1st none of the field work except paving jobs, had been shut down.

An outline of the organization of the Commission, showing department heads and district engineers, follows:

## Commissioners:

J. W. Holden.....	Chairman.....	Scranton
William Collinson.....		Chariton
Anson Marston.....		Ames

## Executive Department:

F. R. White.....	Chief Engineer.....	Ames
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## Department of Road Administration:

M. L. Hutton.....	Assistant Engineer.....	Ames
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## Construction Department:

F. H. Mann.....	Construction Engineer.....	Ames
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## Department of Road Design:

W. E. Jones.....	Engineer of Road Design.....	Ames
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## Maintenance Department:

W. H. Root.....	Maintenance Engineer.....	Ames
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## Bridge Department:

J. H. Ames.....	Bridge Engineer.....	Ames
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## Department of Materials and Tests:

R. W. Crum.....	Engineer of Materials and Tests.....	Ames
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## Department of Purchases and Accounts:

C. R. Jones.....	Auditor.....	Ames
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## District Number One:

W. F. Beard.....	District Engineer.....	Ames
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## District Number Two:

Raymond Zack.....	District Engineer.....	Mason City
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## District Number Three:

E. W. Dunn.....	District Engineer.....	Sioux City
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## District Number Four:

L. M. Martin.....	District Engineer.....	Atlantic
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## District Number Five:

J. S. Morrison.....	District Engineer.....	Ottumwa
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## District Number Six:

Will M. Lee.....	District Engineer.....	Cedar Rapids
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## District Number Seven:

J. A. Paulsen.....	District Engineer.....	Waterloo
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## District Number Eight:

J. F. Reynolds.....	District Engineer.....	Storm Lake
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## District Number Nine:

W. O. Price.....	District Engineer.....	Chariton
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## CHAPTER IV

## Bridge Department

## Bridge Designs for Specific Locations.

(Refer to Schedule No. 1.)

During the past year the bridge department has prepared 2,167 designs for individual locations from field notes secured by the engineers of the Commission and from notes sent in by county engineers. The total estimated cost of the bridges and culverts designed during 1923 by the Commission is \$2,600,023.

Since the present road law went into effect in April, 1913, the bridge department has prepared 12,618 designs for specific locations which are estimated to cost \$22,799,600.

The bridge department has completed the design of several bridges of importance during the past year. Among these are the following:

Design No. 1, Adair County.—This is an open spandrel ribbed arch design over the C, R. I. & P. Railroad in Adair. The center span is 80' flanked on either end by a 35' unsymmetrical arch span. The structure provides 24' roadway and a 3' sidewalk. Contract price is \$42,263.00.

Design No. 2, Allamakee County, shows a 175'x20' pin connected curved chord truss with an 80'x20' pony truss on one end. It spans the Upper Iowa River 13 miles north of Waukon. Contract price is \$33,750.00.

Design No. 7, Black Hawk County, consists of three high truss spans each 120'x20' and spans a cutoff of the Cedar River just north of Cedar Falls. Contract price is \$38,900.00.

Design No. 1, Crawford County, shows an 80' plate girder bridge with a 26' beam approach on each end, over the Boyer River in the north part of Denison. A 24' roadway is provided and provision made for the future addition of two 5' sidewalks.

Design No. 51, Greene County, makes provision for widening the roadway of the "Eureka Mill Bridge" over the Raicon River west of Jefferson. This is a spandrel filled arch bridge consisting of five 70' spans and now provides 16' roadway. The new design contemplates widening the roadway to 20' in conjunction with paving awarded this season. The contract price including the concrete paving over the bridge is \$14,379.00.

Design No. 6, Harrison County, consists of a pin-connected, curved-chord high truss channel span 175' long with a 90' pony truss approach on one end and a 50' pony truss on the other. Clear roadway width is 20'. This bridge is over the Little Sioux River near the town of River Sioux.

Design No. 2, Henry County, provides a high level crossing over Big Creek west of Mt. Pleasant. Two 100' steel deck truss spans with I-beam approaches providing 20' roadway are being constructed here. Contract price is \$25,477.00.



Design No. 9, Mahaska County, consists of two high truss skew spans each 140'x20' with two 40' I-beam approaches. It spans the Skunk River northeast of Rose Hill. Both road and stream were relocated here to provide a satisfactory crossing. Contract was awarded for \$44,000.00.

Design No. 1-B, Winneshiek County. Three alternate bridge designs were prepared for carrying Water Street, in Decorah, over Dry Run Creek. The design finally awarded is a double 40' I-beam span bridge with outer beam encased, giving the appearance of a concrete bridge. This structure provides 33' roadway width and two 8' sidewalks. Contract price is \$17,900.

Design No. 39, Woodbury County. Three designs have been prepared for crossing the Little Sioux River near Correctionville. Ordinarily a steel design would be most economical here but because of the proximity of the excellent county owned gravel pit, a concrete bridge also becomes possible. Plans for the steel design show three 90' spans and two 50' spans all of the partial thru type and provide 20' roadway. Two concrete designs each show an 80' cantilevered girder span flanked with 60' anchor spans approached from the east by three 50' simple girder spans. One design is for a 20' roadway and the other for a 24' roadway. A competitive letting in the near future will determine which design will be built.

#### **Bridge Work on Primary Road System.**

During 1923 detailed plans were prepared for one hundred twenty-one bridges and one thousand nine hundred twenty-three culverts on the primary road system. Since March 8, 1921, the date when primary road funds were first made available for bridge and culvert work on the primary system, there have been two hundred twenty-nine bridge projects approved with an estimated cost of \$7,430,000.00, detailed plans for two hundred ninety-five bridges and 4,934 culverts have been prepared and a total of three hundred sixty-three contracts on two hundred two projects totaling \$5,432,167.02 for the construction of three hundred thirty-nine bridges and 5,270 culverts have been approved up to December 1, 1923.

#### **Approval and Analysis of Designs Submitted.**

During the past year the bridge department has checked the individual plans for two hundred fifty-one structures as submitted by county engineer or private engineers, and in addition has approved the detailed shop drawings for one hundred twenty-six structures estimated to cost \$506,286.00. Since April, 1913, the department has checked 3,038 designs, the cost of which was estimated at \$6,991,000.00. During the same period of time and in addition to the above a total of 1,146 shop drawings was checked on work estimated to cost \$3,923,000.

#### **Standard Plans.**

During the year a good beginning has been made in the preparation of bridge and culvert designs conforming with the new 1923 bridge specifications. Plans are well under way for a new series of pony truss designs, ranging in length from 40' to 90'. These will supersede our present pony truss designs on the primary road system and other heavily traveled roads and city streets.

The detailed list of standard bridge plans given in the 1921 annual report is still substantially correct. Standard plans for Slabs, Deck Girders, I-Beams, Truss Spans, and possibly culverts, will be extensively revised the coming year.

#### **Standard Specifications.**

A complete revision of the specifications pertaining to bridge and culvert work and materials used in their construction was started and well under way in 1922. This specification was completed the fore part of this year, and became effective on all bridge contracts entered into on and after May 10th. These specifications have been published under the title of "Standard Specifications for Bridges, Culverts and Incidental Structures, Series 1923."

#### **Field Work of Bridge Department.**

This department, at the request of the counties, assists in determining the type and character of drainage structures and other preliminary work on large bridge projects. Examination of existing structures also necessitates a number of trips by some members of the department as does also the shop inspection of fabricated material. Whenever possible, bridge problems of a special nature are handled through the district engineer's office but occasionally problems arise which require the services of an engineer from the bridge department.

#### **Bridge Plans for Secondary Roads.**

During 1923 the Commission prepared detailed plans for seventy-seven bridges and forty-six culverts located on the secondary road system. These plans were prepared at the request of the various counties.

#### **Approval of Contracts on Bridge Work.**

(Refer to Schedule No. 2.)

The Commission is required by statute to approve all contracts for bridges and culverts costing over \$2,000.00 and all private con-



tracts in amounts of \$1,000.00 or more. These contracts as awarded by the boards of supervisors are submitted to the Commission and must be approved before they are valid as contracts. The work of the approval of contracts for bridge work is one of the important duties of the Commission. During 1923 a total of two hundred fifty contracts for bridge work were submitted for approval. Two hundred fifty contracts for work costing \$3,179,970.03 were approved. Two contracts for work costing \$115,289.00 were rejected. The tabulation below gives the summary and comparative statement of the bridge contracts approved from April, 1913, to December 1, 1923.

Date of Report	Approved	Average Contract Amount	Total Amount Approved
Apr. 1, 1913 to Dec. 1, 1913	51		\$ 344,182.21
Dec. 1, 1913 to Nov. 1, 1914	111	\$ 7,774.00	738,266.88
Nov. 1, 1914 to Dec. 1, 1915	172	7,530.00	1,327,086.15
Dec. 1, 1915 to Dec. 1, 1916	288	9,569.00	2,943,784.47
Dec. 1, 1916 to Dec. 1, 1917	157	10,803.00	2,128,228.53
Dec. 1, 1917 to Dec. 1, 1918	100	10,735.00	1,709,797.45
Dec. 1, 1918 to Dec. 1, 1919	228	12,428.00	2,829,355.88
Dec. 1, 1919 to Dec. 1, 1920	188	17,947.00	3,373,566.64
Dec. 1, 1920 to Dec. 1, 1921	209	14,883.00	3,554,732.14
Dec. 1, 1921 to Dec. 1, 1922	293	11,248.00	3,286,912.31
Dec. 1, 1922 to Dec. 1, 1923	350	15,739.00	5,179,570.58
Total	2,198		\$ 25,401,302.82

#### Approval of Material Contracts.

(Refer to Schedule No. 3.)

Although the approval by the Commission of material contracts awarded on the basis of bids received at a public letting is not required by law, yet many of the counties voluntarily submit such contracts for review. During the period covered by this report a total of forty-eight material contracts were submitted for approval. Forty-seven of these contracts were approved. The one remaining contract was rejected.

#### Bridge and Material Lettings.

During 1923 the total estimated cost of bridge and culvert work included in lettings attended was \$3,472,212.50 which is a decrease of \$443,877.00 over 1922. The records kept by the Commission on lettings attended during 1923 cover in detail the letting data on 3,002 structures.

Prices on bridge and culvert materials and construction have been steady during the past year with a slight rise in construction prices during the latter part of the year. This rise was partially

due to the change in the standard specifications governing the construction of bridges and culverts. The volume of this class of work during the current year has fallen a little below that of the past two years.

AVERAGE PRICE PAID FOR CORRUGATED CULVERTS IN 1921, 1922 AND 1923

Diameter	Class	Price per lin. Ft. Less Carriage f. o. b. County					
		1921		1922		1923	
		Range in Price	Avg.	Range in Price	Avg.	Range in Price	Avg.
12 inches	A	\$ .85 to \$ .95	\$ .79	\$ .80 to \$ .80	\$ .71	\$ .70 to \$ .80	\$ .75
15 inches	A	.90 to 1.00	.93	.84 to 1.04	.91	.98 to 1.27	1.11
18 inches	A	1.10 to 1.30	1.48	1.00 to 1.48	1.33	1.22 to 1.48	1.31
24 inches	A	1.35 to 2.00	1.99	1.30 to 1.98	1.64	1.70 to 1.99	1.80
30 inches	A	1.50 to 4.85	3.15	1.90 to 3.71	2.85	2.35 to 3.14	2.82
36 inches	A	2.13 to 4.65	3.02	2.17 to 3.87	2.48	2.39 to 3.65	3.40
12 inches	B	.58 to .58	.72	.58 to .74	.61	.58 to .83	.67
15 inches	B	.81 to 1.12	1.12	.70 to 1.11	.88	.90 to 1.21	.99
18 inches	B	.55 to 1.77	1.32	.49 to 1.35	1.08	1.04 to 1.55	1.17
24 inches	B	1.39 to 2.30	1.80	1.05 to 1.75	1.44	1.30 to 1.90	1.55
30 inches	B	1.29 to 2.60	2.81	1.00 to 2.00	2.45	1.78 to 2.85	2.40
36 inches	B	2.80 to 4.28	3.65	2.90 to 3.00	3.97	2.19 to 3.77	3.08

AVERAGE PRICE PAID FOR REINFORCING STEEL IN 1921, 1922 AND 1923

Description	Price per Cwt. Stock Lengths C. L. f. o. b. County					
	1921		1922		1923	
	Range in Price	Avg.	Range in Price	Avg.	Range in Price	Avg.
½ in. O. H. New Ribbed Steel	\$1.87 to \$2.36	\$2.01	\$1.86 to \$2.10	\$2.16	\$1.00 to \$3.80	\$ 2.88
¾ in. O. H. New Ribbed Steel	2.02 to 2.65	2.87	1.71 to 2.15	1.95	2.00 to 3.25	2.86

AVERAGE PRICE PAID FOR STRUCTURAL STEEL IN 1921, 1922 AND 1923

Description	Price per cwt. Erected and f. o. b. County					
	1921		1922		1923	
	Range in Price	Avg.	Range in Price	Avg.	Range in Price	Avg.
I-beams erected	\$ 2.50 to \$7.50	\$5.51	\$2.00 to \$7.75	\$4.02	\$ 4.00 to \$7.25	\$ 5.07
F. O. B. county	3.00 to 4.70	3.89	2.30 to 3.75	3.06		
Trusses erected	5.00 to 10.00	7.51	4.00 to 9.11	6.73	6.50 to 10.00	7.30
F. O. B. county	5.45 to 7.37	6.40				

AVERAGE PRICE PAID FOR LUMBER IN 1921, 1922 AND 1923

Size	Description	Price per M. B. M. C. L. f. o. b. County					
		1921		1922		1923	
		Range in Price	Avg.	Range in Price	Avg.	Range in Price	Avg.
3x12	Stand. Sawed Doug.						
	Fir	\$33.50 to \$53.50	\$41.94	\$31.00 to \$45.00	\$35.43	\$37.90 to \$51.00	\$44.97
3x14	Stand. Sawed Doug.						
	Fir	40.40 to 54.50	45.19	31.90 to 42.95	36.78	38.00 to 51.00	43.64
3x16	Stand. Sawed Doug.						
	Fir	37.00 to 56.00	44.23	32.90 to 46.00	37.87	40.00 to 52.00	44.06
3x12	Full Sawed Doug. Fir	35.90 to 45.00	41.53	35.00 to 43.50	38.21	38.00 to 48.40	43.60
3x14	Full Sawed Doug. Fir	36.90 to 43.90	40.40	35.00 to 43.45	39.61	40.93 to 52.00	46.15
3x16	Full Sawed Doug. Fir	37.90 to 45.95	43.12	35.00 to 45.00	39.86	41.93 to 52.00	47.97
3x12	Stand. Sawed White Oak		49.31		45.00		

AVERAGE PRICE PAID FOR PILING IN 1921, 1922 AND 1923

Length	Kind	Price per Lineal Foot Carlots f. o. b. County					
		1921		1922		1923	
		Range in Price	Avg.	Range in Price	Avg.	Range in Price	Avg.
16 ft.	Red Cedar	\$0.27 to \$0.37	\$0.32	\$0.135 to \$0.26	\$0.245	\$0.22 to \$0.40	\$0.313
20 ft.	Red Cedar	.295 to .39	.347	.135 to .32	.273	.2625 to .45	.346
24 ft.	Red Cedar	.33 to .46	.372	.135 to .29	.30	.28 to .41	.349
16 ft.	Cypress	.20 to .32	.25	.21 to .26	.173	.155 to .325	.223
20 ft.	Cypress	.19 to .35	.257	.20 to .36	.182	.155 to .335	.246
24 ft.	Cypress	.22 to .37	.255	.255 to .40	.193	.17 to .30	.249

AVERAGE PRICE PAID FOR CEMENT IN 1921, 1922 AND 1923

1921 dealer's net price per bbl. f. o. b. Cedar Rapids,  
Car lots range in price \$2.28 to \$2.71—Average \$2.50.  
1922 dealer's net price per bbl. f. o. b. Cedar Rapids,  
Car lots range in price \$2.11 to \$2.48—Average \$2.32.  
1923 dealer's net price per bbl. f. o. b. Cedar Rapids,  
Car lots range in price \$2.33 to \$2.48—Average \$2.45.

1921 dealer's net price per bbl. f.o.b. Cedar Rapids,  
Car lots range in price \$2.28 to \$2.71—Avg. \$2.50.  
1922 dealer's net price per bbl. f.o.b. Cedar Rapids,  
Car lots range in price \$2.11 to \$2.48—Avg. \$2.32.  
1923 dealer's net price per bbl. f.o.b. Cedar Rapids,  
Car lots range in price \$2.33 to \$2.48—Avg. \$2.45.

Bids received from local dealers are from ten cents to twenty-five cents per bbl. above dealer's price on account of storage and handling charges made.

#### Drainage Investigations.

The work of this division consists principally of studying the flow of Iowa's streams to determine reasonable rates of flood run-off to be used in the design of highway bridges and culverts.

#### Stream Gaging Work.

The co-operative agreement for stream gaging work between the State Geological Survey, the State Highway Commission, and the

U. S. Geological Survey, has been continued under the direction of J. B. Spiegel, Hydraulic Engineer, U. S. Geological Survey, who devotes his entire time to this work in Iowa.

Twenty-eight regular gaging stations as shown by the following list, are maintained in the most important streams where river stages are observed once or twice a day. At eight stations a continuous record of stage is being obtained by means of mechanical recorders.

One hundred regular measurements of the amount of water flowing were made. The daily flow at these stations has been computed and is available to anyone interested in these matters.

Recording gages were installed on the Raccoon River at Van Meter, and Sugar Creek near Keokuk for the purpose of assisting in a more detailed study of flood characteristics.

General climatic conditions were moderate and precipitation and run-off were somewhat below normal.

River	Mississippi Drainage. Town	County
Upper Iowa	Decorah	Winneshiek
Turkey	Garber	Clayton
Maquoketa	Maquoketa	Jackson
Shell Rock	Clarksville	Butler
Cedar	Janesville	Bremer
Cedar	Cedar Rapids	Linn
Iowa	Marshalltown	Marshall
Iowa	Iowa City	Johnson
Iowa	Wapello	Louisa
Squaw Creek	Ames	Story
Skunk	Ames	Story
Skunk	Coppock	Henry
Skunk	Augusta	Lee
Raccoon	Van Meter	Dallas
Des Moines	Kale	Webster
Des Moines	Boone	Boone
Des Moines	Des Moines	Polk
Des Moines	Ottumwa	Wapello
Des Moines	Keosauqua	Van Buren
Des Moines	Tracy	Marion
Sugar Creek	Keokuk	Lee
	Missouri Drainage.	
Little Sioux	Correctionville	Woodbury
Boyer	Logan	Harrison
W. Br. Nishnabotna	White Cloud	Mills
E. Br. Nishnabotna	Red Oak	Montgomery
Nodaway	Clarinda	Page
Thompson	Davis City	Decatur
W. Br. Nishnabotna	Villisca	Montgomery



## SCHEDULE NO. 1

## BRIDGE DESIGNS FOR SPECIFIC LOCATIONS

County	Number of Designs	Estimated Value	County	Number of Designs	Estimated Value
Adair	54	\$ 88,153.00	Jasper	3	12,178.00
Adams	1	16,190.00	Johnson	101	55,126.00
Allamakee	40	52,989.00	Jones	41	41,609.00
Appanoose	10	7,056.00	Keokuk	67	29,616.00
Audubon	22	82,968.00	Kossuth	3	3,065.00
Benton	3	14,733.00	Lee	3	9,693.00
Black Hawk	40	54,784.00	Linn	8	31,552.00
Bremer	36	23,961.00	Louisa	16	20,803.00
Buchanan	5	17,769.00	Lyon	42	29,518.00
Buena Vista	9	3,419.00	Madison	26	13,136.00
Butler	35	15,668.00	Mahaska	18	62,872.00
Calhoun	2	8,975.00	Marion	106	44,065.00
Carroll	64	64,318.00	Marshall	1	1,295.00
Cass	1	2,673.00	Mitchell	1	1,846.00
Cedar	93	58,976.00	Monona	18	26,426.00
Cerro Gordo	5	29,694.00	Monroe	42	27,935.00
Cherokee	28	34,873.00	Muscatine	38	47,578.00
Chickasaw	3	1,652.00	O'Brien	15	14,502.00
Clark	56	26,543.00	Osceola	1	5,038.00
Clay	49	93,483.00	Palo Alto	7	38,178.00
Clayton	57	49,731.00	Plymouth	86	127,561.00
Clinton	65	24,589.00	Pocahontas	2	11,242.00
Crawford	37	72,881.00	Polk	24	23,049.00
Dallas	24	21,146.00	Pottawattamie	60	75,616.00
Davis	49	21,532.00	Poweshiek	3	15,158.00
Decatur	60	34,161.00	Ringgold	4	9,360.00
Delaware	37	34,575.00	Sac	1	8,767.00
Des Moines	2	1,781.00	Sioux	67	77,922.00
Dickinson	4	11,606.00	Tama	22	7,674.00
Dubuque	3	3,173.00	Taylor	2	1,892.00
Emmet	22	20,474.00	Van Buren	2	9,544.00
Fayette	2	9,986.00	Wapello	2	11,053.00
Floyd	26	11,066.00	Warren	23	30,727.00
Greene	54	58,135.00	Washington	7	3,346.00
Grundy	4	23,902.00	Wayne	45	13,767.00
Guthrie	1	289.00	Webster	5	56,843.00
Hamilton	19	48,025.00	Winnebago	1	5,805.00
Hancock	10	2,283.00	Winnebuck	72	90,388.00
Harrison	9	77,336.00	Woodbury	67	101,037.00
Henry	17	84,886.00	Worth	2	12,625.00
Howard	27	14,481.00	Wright	10	3,821.00
Humboldt	2	30,672.00			
Ia	4	17,667.00			
Jackson	3	13,400.00			
			Total	2,167	\$ 2,600,023.00

## SCHEDULE NO. 2

BRIDGE CONTRACTS SUBMITTED FOR APPROVAL  
DECEMBER 1, 1922 TO DECEMBER 1, 1923

County	Contractor	Date Approved	Amount Approved
Adair	Federal Bridge Co.	May 8, 1923	\$ 42,263.00
	F. W. Kempe	Sept. 29, 1923	9,143.00
	A. Olson Construction Co.	Sept. 29, 1923	25,300.00
	F. W. Kempe	Sept. 29, 1923	24,400.00
Allamakee	Currie-Simpson Bridge Co.	May 9, 1923	47,600.00
	Henry C. Lawson	May 9, 1923	1,060.00
	Brinnan Bros.	May 9, 1923	928.00
	J. C. Beede	Sept. 29, 1923	1,278.00
Appanoose	Alexander & Higbie	Mar. 27, 1923	8,704.00
	Alexander & Higbie	Mar. 27, 1923	9,771.00
Audubon	Jensen Construction Co.	Jan. 26, 1923	5,360.00
	Jensen Construction Co.	June 15, 1923	9,420.00
	Jensen Construction Co.	Aug. 7, 1923	5,000.00
	Jensen Construction Co.	Aug. 25, 1923	19,429.00
Benton	Waterloo Construction Co.	Apr. 24, 1923	11,700.00
	Waterloo Construction Co.	Apr. 24, 1923	9,775.00
	M. O. Burnett	Apr. 24, 1923	12,775.00
	E. D. Traxel & Son	Apr. 24, 1923	5,657.93
Black Hawk	Waterloo Construction Co.	Feb. 8, 1923	3,390.49
	Waterloo Construction Co.	July 5, 1923	12,520.00
	Parsons & Meyer Const. Co.	Sept. 15, 1923	47,955.00
Boone	Alexander & Higbie	July 5, 1923	10,472.00
	McHose Sand & Tile Co.	July 5, 1923	2,703.00
	Shackleton Const. Co.	July 5, 1923	16,115.00
	Des Moines Steel Co.	July 5, 1923	25,354.00
Bremer	H. E. Wilcox	July 11, 1923	3,268.00
	Howard O. Graham Co.	July 17, 1923	2,400.00
	C. H. & J. H. Russell	July 24, 1923	20,421.00
Buchanan	J. B. Elliott	July 11, 1923	10,700.00
	Ward & Teslow	July 11, 1923	9,100.00
	J. B. Elliott	Sept. 8, 1923	884.58
Calhoun	Powers & Devereaux	Mar. 5, 1923	17,185.00
	Vinton Eng. & Const. Co.	Mar. 5, 1923	27,106.00
Cass	Henningsen Const. Co.	June 19, 1923	16,774.00
Cedar	V. L. Hansen	April 24, 1923	8,645.00
	J. B. Elliott	April 24, 1923	16,527.34
	H. & M. Const. Co.	April 24, 1923	15,253.00
	A. P. Munson	July 2, 1923	21,928.00
	V. L. Hansen	July 2, 1923	22,791.00
	S. R. Johnston	July 5, 1923	7,600.00
	W. D. Phelan Co.	Nov. 21, 1923	10,900.00
Cerro Gordo	A. Olson Construction Co.	May 9, 1923	13,567.00
	C. A. Holvick	May 14, 1923	19,842.00
Cherokee	Miller & Johnson	May 14, 1923	47,935.00
	Humphrey & Sons	May 14, 1923	6,949.00
	Deloit Bridge Co.	Oct. 16, 1923	20,600.00
Clarke	Mardis & Schwick	Mar. 1, 1923	23,880.00
Clay	Lorenz Larson Co.	Aug. 24, 1923	4,190.00
	Voiles Const. Co.	Aug. 24, 1923	3,500.00
	Lorenz Larson Co.	Aug. 24, 1923	7,436.00
	Schaaf & Jacobsen	Aug. 24, 1923	8,330.00
	Parsons Meyer Const. Co.	Nov. 21, 1923	7,900.00
	Humphrey & Sons	Nov. 21, 1923	18,752.00
	Ernest Landsman	Nov. 21, 1923	22,530.00
Clayton	Josef Vogt	Dec. 11, 1922	2,353.20
	W. C. Bender	Aug. 24, 1923	7,475.00
	A. Olson Const. Co.	Aug. 24, 1923	35,767.00
Clinton	John R. Kane	Mar. 16, 1923	28,800.00
	A. Olson Const. Co.	June 13, 1923	9,500.00
	Louis Schnede	June 13, 1923	3,049.50
	J. R. Kane	Sept. 8, 1923	6,973.00
	Clinton Eng. Co.	Sept. 8, 1923	7,639.00
	Clinton Eng. Co.	Nov. 5, 1923	1,400.00
Clinton & Scott	A. Olson Construction Co.	June 7, 1923	27,300.00
Crawford	Landgren Reis Co.	Aug. 16, 1923	6,567.00
	Stanley Brown	Aug. 16, 1923	1,663.00
	F. H. Christenson	Aug. 20, 1923	7,797.00
	C. J. Kramme & Co.	Sept. 24, 1923	5,150.00
	A. Swanson Co.	Sept. 24, 1923	11,500.00
	C. J. Kramme & Co.	Sept. 24, 1923	3,539.00
	Landgren Reis Co.	Oct. 24, 1923	27,800.00



## SCHEDULE NO. 2—Continued

County	Contractor	Date Approved	Amount Approved
Dallas	Shackleton Const. Co.	April 24, 1923	13,980.00
	Shackleton Const. Co.	Aug. 16, 1923	4,980.00
	Shackleton Const. Co.	Oct. 16, 1923	2,000.00
Davis	Ottumwa Sup. & Const. Co.	May 14, 1923	25,555.00
Decatur	C. J. Kramme & Co.	May 16, 1923	1,489.00
	C. J. Kramme & Co.	May 16, 1923	8,311.00
Delaware	Parsons & Meyer	May 9, 1923	25,663.00
	Robt. Hackbarth	May 16, 1923	4,303.00
	Parsons & Meyer	May 16, 1923	3,900.00
	A. Olson Const. Co.	May 16, 1923	25,750.00
	S. T. Holdren	May 21, 1923	3,457.00
Dickinson	J. L. Merryman	Sept. 8, 1923	9,446.00
Dubuque	Even, Uhrlich, Staner Co.	Jan. 16, 1923	12,339.70
	Wm. Hantelman	Jan. 16, 1923	6,322.40
	Peter Eisbach & Sons	Jan. 16, 1923	15,199.80
	P. A. Besler	Jan. 26, 1923	1,957.50
	Even, Uhrlich, Staner Co.	Feb. 16, 1923	5,359.05
	S. J. Graves & Sons Co.	July 24, 1923	4,700.00
	P. A. Besler	Aug. 13, 1923	4,050.00
Emmet	Cement Products Co.	Oct. 22, 1923	4,625.55
Floyd	C. H. & J. H. Russell	June 2, 1923	10,725.60
	W. C. Bender	July 2, 1923	2,245.00
Greene	Shackleton Const. Co.	July 7, 1923	11,440.00
	Shackleton Const. Co.	July 21, 1923	10,980.00
	Shackleton Const. Co.	Sept. 13, 1923	693.44
Grundy	Waugh & Tackman	May 8, 1923	9,967.00
	Edward N. Ove	July 5, 1923	14,200.00
	Edward N. Ove	July 12, 1923	7,980.00
	Waterloo Const. Co.	July 12, 1923	4,500.00
Guthrie	H. E. Rhoades Co.	Dec. 26, 1923	2,114.75
	Jensen Construction Co.	Jan. 17, 1923	20,977.00
	Aeme Construction Co.	May 7, 1923	20,500.00
Hamilton	J. R. Stevens Co.	May 4, 1923	3,331.75
	Hirt & Wilson	May 4, 1923	690.00
	Hirt & Wilson	May 4, 1923	2,330.00
	Hirt & Wilson	May 4, 1923	3,000.00
	J. R. Stevens Co.	May 4, 1923	3,480.00
	A. Swanson Co.	May 4, 1923	21,300.00
	J. A. Dunkel	July 21, 1923	8,800.00
	Hirt & Wilson	Oct. 16, 1923	2,580.75
Hancock	Blank & Sorenson	Aug. 25, 1923	600.87
Hardin	Welden Bros.	July 7, 1923	12,500.00
Harrison	Huff & Finley	Oct. 8, 1923	4,700.00
	Standard Bridge Co.	Nov. 21, 1923	4,800.00
Henry	Alexander & Higbie	Aug. 13, 1923	25,477.00
	J. L. Whitney	Aug. 13, 1923	12,732.00
Howard	W. C. Bender	Feb. 16, 1923	6,630.00
	Parsons & Meyers	July 21, 1923	4,669.00
Ida	Deloit Bridge Co.	July 2, 1923	18,400.00
Iowa	J. C. Watkins & Co.	Mar. 16, 1923	7,100.00
Jones	S. H. Holdren	Oct. 6, 1923	28,996.00
Jasper	Vinton Eng. & Const. Co.	July 17, 1923	13,680.00
	Jensen Construction Co.	July 17, 1923	24,741.00
Jefferson	C. H. Kearns	Jan. 16, 1923	1,149.95
Johnson	J. C. Watkins & Co.	Feb. 16, 1923	17,800.00
	A. P. Munsen	June 25, 1923	13,778.00
	J. C. Watkins & Co.	June 25, 1923	18,690.00
Jones	J. R. Stevens Co.	Dec. 16, 1923	14,700.00
	V. L. Hanssen	Jan. 16, 1923	767.53
	V. L. Hanssen	April 2, 1923	2,000.00
	R. R. Hackbarth	April 2, 1923	11,900.00
	V. L. Hanssen	May 21, 1923	11,900.00
	P. A. Besler	Aug. 14, 1923	4,000.00
Keokuk	Currie-Simpson Co.	May 14, 1923	83,119.00
Kossuth	F. E. Marsh & Co.	Aug. 29, 1923	3,500.00
Lee	Cameron Joyce & Co.	July 5, 1923	9,444.80
Linn	Perry Jayne	Mar. 16, 1923	13,660.00
	Perry Jayne	June 13, 1923	39,067.00
	Perry Jayne	Aug. 14, 1923	2,522.00
	F. L. Bishop	Aug. 13, 1923	10,895.00
Louisa	Winn Construction Co.	Oct. 1, 1923	15,816.00
	Dave Wallace	Oct. 22, 1923	9,772.00
	Miller Construction Co.	Oct. 22, 1923	8,245.00

## SCHEDULE NO. 2—Continued

County	Contractor	Date Approved	Amount Approved
Lyon	Weaver & Lamb	June 4, 1923	23,549.00
	A. Swanson Co.	Aug. 17, 1923	5,720.00
	A. Swanson Co.	Aug. 17, 1923	4,519.00
Mahaska	Huff & Finley	Mar. 17, 1923	3,890.00
	H. E. Whitlatch	July 5, 1923	22,700.00
	Huff & Finley	July 11, 1923	3,315.11
Marion	Miller-Fifield Const. Co.	July 11, 1923	44,000.00
	John Ritzinger	July 9, 1923	6,765.00
	Christensen Construction Co.	July 9, 1923	8,512.00
Marshall	Ingersoll-Stouffer Eng. Co.	Feb. 16, 1923	43,900.00
	Ingersoll-Stouffer Eng. Co.	Oct. 22, 1923	9,945.00
Monona	Lamoreaux Bros.	Feb. 17, 1923	36,857.00
	Pickus Eng. & Const. Co.	May 8, 1923	15,085.00
	Voiles Construction Co.	May 28, 1923	4,980.00
	Voiles Construction Co.	Sept. 29, 1923	2,250.00
Monroe	J. A. Lafferty Bridge Co.	May 16, 1923	5,910.00
	F. C. Jackson	May 16, 1923	11,917.50
	J. A. Lafferty Bridge Co.	May 16, 1923	3,811.25
Muscatine	T. F. Maher	May 15, 1923	4,820.00
	T. F. Maher	Sept. 24, 1923	2,110.00
	Leo Plumb	Sept. 29, 1923	11,620.00
O'Brien	Graves Bros.	April 17, 1923	6,776.00
	Pyncheon Eng. Co.	April 17, 1923	9,444.00
	Geo. Gardner	April 17, 1923	21,928.00
	Graves Bros.	Sept. 25, 1923	360.00
	Graves Bros.	Sept. 25, 1923	2,950.00
Oseola	Homer Enterline	Sept. 25, 1923	4,600.00
Page	Wilson Conc. Co.	June 1, 1923	11,850.00
	Geo. W. Condon	Sept. 24, 1923	13,090.00
	Geo. W. Condon	Sept. 24, 1923	46,173.00
	Geo. W. Condon		
Palo Alto	Lundgren-Reis Co.	Jan. 3, 1923	10,150.00
	Lundgren-Reis Co.	July 17, 1923	17,900.00
	Graettinger Tile Works	Aug. 17, 1923	3,225.00
	Lundgren-Reis Co.	Oct. 9, 1923	2,285.00
Plymouth	Wm. F. Hentges	May 9, 1923	2,367.82
	Homer Enterline	July 2, 1923	8,177.00
	Deloit Bridge Co.	July 2, 1923	9,998.00
	Ward & Weighton	July 10, 1923	26,797.00
	Jens C. Peterson	July 19, 1923	8,000.00
	Jens C. Peterson	July 19, 1923	4,000.00
	Vinton Eng. & Const. Co.	July 19, 1923	52,000.00
	Humphrey & Sons	Oct. 29, 1923	19,586.00
	Deloit Bridge Co.	Nov. 5, 1923	2,446.69
	Deloit Bridge Co.	Nov. 5, 1923	22,048.31
Pocahontas	Loren Larson	June 11, 1923	12,120.00
Polk	N. M. Stark & Co.	July 2, 1923	37,212.00
Pottawattamie	Wickham Bridge & Pipe Co.	Dec. 16, 1923	19,490.00
Poweshiek	Wickes Eng. & Const. Co.	April 19, 1923	17,950.00
	John J. Grose	May 4, 1923	7,677.00
	C. L. Schouboe & Co.	May 4, 1923	15,800.00
	Iowa Bridge Co.	Aug. 29, 1923	8,150.00
Ringgold	C. J. Kramme & Co.	Dec. 27, 1923	14,272.00
	C. J. Kramme & Co.	Dec. 27, 1923	27,701.00
Sac	Lundgren-Reis Co.	Feb. 16, 1923	47,500.00
	H. G. Nieland	Aug. 16, 1923	250.00
Scott	Gould Const. Co.	Dec. 14, 1923	2,700.00
	Vinton Eng. & Const. Co.	Mar. 16, 1923	5,960.00
	W. D. Phelan & Co.	April 17, 1923	8,862.00
	Fred J. Smith	April 17, 1923	10,496.00
	Henry Gertz	April 17, 1923	6,551.25
	Federal Bridge Co.	April 17, 1923	11,600.00
	Leo Plumb	April 17, 1923	8,468.00
	Federal Bridge Co.	April 17, 1923	4,436.00
	Ove Holm	July 2, 1923	13,350.00
	Vinton Eng. & Const. Co.	July 2, 1923	21,790.00
	A. Olson Construction Co.	July 2, 1923	18,985.00
	W. D. Phelan & Co.	July 2, 1923	43,150.00
	Federal Bridge Co.	July 7, 1923	16,960.00
	Fred J. Smith	Sept. 24, 1923	1,000.00
Shelby	W. T. Baxter	June 4, 1923	20,408.00



## SCHEDULE NO. 2—Continued

County	Contractor	Date Approved	Amount Approved
Sioux	Jensen Construction Co.	July 18, 1923	9,500.00
	John Brandsma	Aug. 7, 1923	4,510.21
	Ernest Landsman	Aug. 7, 1923	15,803.00
Story	H. T. Stillman	Jan. 17, 1923	2,700.00
	Ben J. Cole	Feb. 16, 1923	28,819.00
	H. T. Stillman	May 9, 1923	787.55
Tama	Earl Wolfe	Aug. 17, 1923	16,355.00
	Mammings Construction Co.	Aug. 17, 1923	8,950.00
Union	James Rusk	May 7, 1923	13,588.00
Warren	Shackleton Construction Co.	Oct. 11, 1923	11,243.00
	Ben J. Cole	Oct. 11, 1923	16,719.00
	Shackleton Construction Co.	Oct. 16, 1923	19,457.00
Washington	Iowa Bridge Co.	Dec. 16, 1923	21,449.00
	Iowa Bridge Co.	April 30, 1923	13,450.00
	Iowa Bridge Co.	April 30, 1923	32,975.00
	Iowa Bridge Co.	Oct. 22, 1923	6,200.00
Wayne	Corydon Lumber Co.	June 2, 1923	2,000.00
Webster	F. E. Marsh & Co.	Dec. 26, 1923	1,550.00
	Nelson Aldrich Const. Co.	Feb. 2, 1923	35,898.00
	Des Moines Steel Co.	June 19, 1923	7,065.00
	Cahill, Hornick & McCarthy	Aug. 17, 1923	6,290.00
Winnebago	W. D. Knoll	Oct. 2, 1923	5,536.80
	Gjellefeld-Chapman Const. Co.	Oct. 2, 1923	3,580.00
Winnesiek	John J. Grose	May 8, 1923	7,072.26
	J. A. Dunkel	May 28, 1923	19,620.00
	James W. Quinn	June 2, 1923	8,965.20
	A. Olson Construction Co.	Oct. 1, 1923	11,419.00
Woodbury	C. L. Schouboe Co.	May 26, 1923	32,777.00
	C. L. Schouboe Co.	July 7, 1923	10,727.10
	Ward & Weighton	July 7, 1923	1,009.00
	Voiles Construction Co.	Sept. 29, 1923	4,400.00
Worth	C. W. Pedersen	Mar. 6, 1923	10,800.00
	A. Olson Construction Co.	Mar. 6, 1923	21,350.00
	Christ Jensen	May 4, 1923	3,554.20
Wright	Iowa Bridge Co.	April 30, 1923	21,660.00
	Grundy Construction Co.	June 5, 1923	4,504.00
	Total		\$ 3,152,524.53

## SCHEDULE NO. 3

MATERIAL CONTRACTS SUBMITTED FOR APPROVAL  
DECEMBER 1, 1922 TO DECEMBER 1, 1923

County	Contractor	Material	Date Approved
Allamakee	W. W. Saylor	Lumber	Mar. 16, 1923
Audubon	Standard Bridge Co.	Lumber and piling	Jan. 4, 1923
Appanoose	Wheeler Lumber, Br. & Sup.	Lumber	Mar. 23, 1923
	Midland Metal Mfg. Co.	Corrugated culverts	Mar. 23, 1923
	John Lucas and Co.	Paint	May 9, 1923
Black Hawk	Klauer Mfg. Co.	Corrugated culverts	June 22, 1923
Bremer	W. W. Saylor	Lumber	Feb. 16, 1923
	Independence Corr. Culv. Co.	Corrugated culverts	Feb. 26, 1923
Buchanan	Independence Corr. Culv. Co.	Corrugated culverts	Feb. 23, 1923
	Wheeler Lbr. & Sup. Co.	Lumber	Feb. 23, 1923
Cass	Nebraska & Iowa Steel Tank Co.	Corrugated culverts	July 17, 1923
Cedar	Independence Corr. Culv. Co.	Corrugated culverts	Aug. 16, 1923
Clarke	Iowa Pure Iron Co.	Corrugated culverts	June 11, 1923
Clayton	Klauer Mfg. Co.	Corrugated culverts	Mar. 6, 1923
Clayford	Klauer Mfg. Co.	Corrugated culverts	Feb. 27, 1923
Dallas	Brenton Bros. Lumber Co.	Lumber	Apr. 6, 1923
Davis	Midland Metal Mfg. Co.	Corrugated culverts	Aug. 15, 1923
Delaware	Wheeler Lbr., Br. & Sup. Co.	Lumber	Mar. 16, 1923
	Klauer Mfg. Co.	Corrugated culverts	Mar. 16, 1923
	Klauer Mfg. Co.	Corrugated culverts	Feb. 16, 1923
Dubuque	Spahn & Rose Lbr. Co.	Lumber	Feb. 16, 1923
	Iowa Pure Iron Co.	Corrugated culverts	July 19, 1923
Greene	Central Culv. Co.	Corrugated culverts	Oct. 8, 1923
Henry	Waterloo Const. Co.	Reinforced steel	Feb. 16, 1923
Howard	Klauer Mfg. Co.	Corrugated culverts	Feb. 22, 1923
Jackson	Nebraska & Iowa Steel Tank Co.	Corrugated culverts	Sept. 29, 1923
Jefferson	Iowa Pure Iron Co.	Corrugated culverts	July 21, 1923
Johnson	Iowa Pure Iron Co.	Corrugated culverts	July 21, 1923
	Galion Iron Wks. & Mfg. Co.	Corrugated culverts	Dec. 26, 1923
Jones	Standard Bridge Co.	Lumber	Oct. 8, 1923
	Clinton Bridge Works	Structural steel	May 21, 1923
Lee	Ft. Dodge Cul. & Steel Co.	Corrugated culverts	July 17, 1923
Lyon	Klauer Mfg. Co.	Corrugated culverts	July 21, 1923
Mahaska	Central Culvert Co.	Corrugated culverts	Sept. 13, 1923
Marion	Central Culvert Co.	Corrugated culverts	June 4, 1923
Marshall	Wilson Concrete Co.	Concrete pipe	July 19, 1923
Monona	Midland Metal Mfg. Co.	Corrugated culverts	Oct. 16, 1923
Monroe	Ft. Dodge Culvert Co.	Corrugated culverts	July 19, 1923
Plymouth	Central Culv. Co.	Corrugated culverts	Feb. 22, 1923
Ringgold	Clinton Bridge Works	Reinforced steel	June 2, 1923
Scott	Builders Lime and Cement Co.	Cement	June 2, 1923
Tama	Union Iron Products Co.	Corrugated culverts	Jan. 26, 1923
Washington	Central Culv. Co.	Corrugated culverts	May 9, 1923
	Standard Bridge Co.	Lumber	May 9, 1923
Winnesiek	Nebraska Br. Sup. & Lbr. Co.	Lumber and piling	Jan. 26, 1923
	H. F. Thompson	Corrugated culverts	
Woodbury	Nebraska Br. Sup. & Lbr. Co.	Lumber and piling	Feb. 8, 1923
Wright	Ft. Dodge Metal & Cul. Co.	Corrugated culverts	June 18, 1923



## CHAPTER V

## Railroad Crossing Improvements

The policy of concentrating railroad crossing activities largely to the primary road system has been continued during the year of 1923.

Below is given a comparative statement of the work accomplished on railroad crossing improvements from December 1, 1922 to December 1, 1923.

	During 1922	During 1923	Grand Total to Dec. 1, 1923
Crossing projects listed.....	62	35	507
Number of railroad crossings involved on projects listed.....	73	39	652
Projects surveyed.....	3	1	182
Projects for which plans and estimates were prepared.....	56	41	307
Number of conferences held.....	38	47	263
Number of projects satisfactorily adjusted.....	27	8	177
Number of projects listed which have been appealed to Railroad Commission.....	13	6	44
Projects adjusted by Railroad Commission.....	9	3	32
Grade crossings eliminated by grade separation.....	18	8	61
Crossings improved.....	52	4	185
Estimated cost of crossing improvements satisfactorily adjusted.....	\$330,000	\$253,190	\$1,203,300
Total estimated amount appropriated by railroad companies for crossing improvements.....	151,000	115,000	586,848
Total estimated amount appropriated from public funds for crossing improvements.....	179,000	138,190	616,562
Average percentage of cost paid by railroad companies for crossing improvement.....	46	45	50
Average percentage of cost paid from public funds for crossing improvements.....	54	55*	50

The crossing projects listed include all of the crossings which have been referred to the Commission since 1914. Many of these projects have been satisfactorily adjusted and completed.

From the foregoing tabulation it will be noted that the crossing work accomplished and the expenditures made for crossing improvements since 1914 are very small in view of the large number of crossings in this state.

Statistics show that the number of accidents at grade crossings are increasing at an appalling rate. In order to meet this condition and decrease the rapidly growing list of dead and injured it will be necessary to greatly increase the number of crossings improved each year.

## Distribution of Dangerous Crossings.

By far the greater majority of the crossings listed for improvement during the past few years have been grade crossings. However, there are many complaints received and investigated by the Commission referring to dangerous conditions existing at undergrade and overhead crossings. The crossings listed for improvement are classified as to type as follows:

DISTRIBUTION AND PERCENTAGE OF CROSSINGS LISTED FOR IMPROVEMENT OR IMPROVED TO DECEMBER 1, 1923

Type of Crossing	Number Listed 1923	Distribution of Original Crossings as Listed by Commission	
		Number	Percentage
Grade.....	34	467	78
Overhead.....	1	50	8
Undergrade.....	2	71	12
New crossings.....	2	11	2
Total.....	39	599	100

DISTRIBUTION OF CROSSING IMPROVEMENTS ACCORDING TO THE PLANS AND RECOMMENDATIONS OF THE COMMISSION, DECEMBER 1, 1923

Type of Crossing	Eliminated		Improved		Grade Separation		Total
	No.	%	No.	%	No.	%	No.
Grade.....	136	30	153	33	170	37	459
Overhead.....	4	9	41	91			45
Undergrade.....	5	8	59	92			64
New crossings.....			1	100			1
Total number.....	145		254		170		569
Percentage of total.....		25		45		30	

DISTRIBUTION OF CROSSING IMPROVEMENTS SATISFACTORILY ADJUSTED TO DECEMBER 1, 1923

Type of Crossing	Eliminated		Improved		Grade Separation		Total
	No.	%	No.	%	No.	%	No.
Grade.....	41	21	96	50	56	29	193
Overhead.....	5	14	31	86			36
Undergrade.....	2	6	33	94			35
New crossings.....			2	100			2
Total number.....	48		162		56		266
Percentage of total.....		18		61		21	



**Minimum Standard Requirements for Crossing Improvements.**

The minimum requirements as adopted by the Commission for grade, undergrade and overhead crossings are as given in detail in the 1921 annual report.

**Plans for Future Crossing Work.**

Surveys have been completed and plans are in the course of preparation on a number of important crossing improvements. It is the policy of the Commission to secure if possible the improvement of the crossings located on important highways and main line railroads as rapidly as practicable. Other improvements requiring a nominal expenditure will be given attention by the Commission, but the more important crossings will be given first consideration.

**CHAPTER VI****Department of Road Administration****Projects Approved.**

(a) *Primary Road Improvement Projects.* Refer to Schedules Nos. 4 and 5. Eighty-three projects, contemplating the improvement of 639.98 miles of road at an estimated cost of \$3,895,124.62, have been approved by the Commission. Eighteen of these projects have been designated as Federal Aid projects and have been approved by the Secretary of Agriculture. Of the eighty-three projects, thirteen contemplate hard surfacing of 90.71 miles, twenty-six contemplate gravel surfacing of 198.48 miles, three contemplate the improvement by tile drainage only of 44.04 miles, while the remaining projects contemplate improving by constructing to finished grade and providing the necessary drainage, with no surfacing involved, on 306.75 miles.

(b) *City Primary Projects.* Refer to Schedule No. 6. Eleven city projects, involving the paving of 13.86 miles of primary road extensions within the limits of cities, were approved by the Commission. The total estimated cost of these eleven projects for which plans and specifications and estimates were prepared, is \$568,067.46, and the amount to be paid from the primary road fund is \$190,788.94.

(c) *Secondary-Primary Road Projects.* Refer to Schedule No. 7. Eight projects in three different counties have been approved, for the improvement of 42.82 miles of secondary roads under the provisions of Chapter 89, 40th General Assembly, whereby primary funds may be used on secondary roads after the primary road system is fully improved by grading, draining and graveling, or other approved surfacing. Of these eight projects, seven involve gravel surfacing of 29.82 miles, and one involves the grading and necessary drainage on 13.00 miles.

**Plans, Specifications and Estimates Submitted.**

(a) *Federal Aid Projects.* Refer to Schedule No. 8. Plans, specifications and estimates have been submitted to the Bureau of Public Roads for thirty-four projects (including modifications), involving the improvement of 294.86 additional miles of road at an estimated cost of \$6,017,075.46. Fifteen of these projects contemplate the hard surfacing of 133.48 miles, three projects con-



template the gravel surfacing of 58.92 miles, while the improvement contemplated on 156.67 miles consists of constructing to finished grades and providing the necessary drainage, with no surfacing involved.

(b) *Primary Road Projects.* Refer to Schedule No. 9. Plans, specifications and estimates have been submitted to the Boards of Supervisors for 104 projects, involving the improvement of 748.48 miles of road at an estimated cost of \$3,544,602.82. Six of these projects contemplate the hard surfacing of 7.07 miles. Thirty-five of the projects contemplate the gravel surfacing of 265.28 miles, four projects contemplate the improvement by tile drainage only, of 56.31 miles, while the improvement contemplated on the remaining 419.82 miles consists of constructing to finished grade and providing the necessary drainage with no surfacing involved.

#### **Project Agreements Executed.**

(Refer to Schedule No. 10.)

Project agreements were executed by the Secretary of Agriculture and the State Highway Commission whereby \$2,008,952.50 of Federal Aid funds were set aside as the Federal Government's share of the cost of construction involved in forty-four projects. The work contemplated in these projects involves the improvement of 320.44 additional miles, 60.38 miles of hard surfacing, 73.40 miles by gravel surfacing, and the remaining 186.66 miles by constructing to finished grades and providing the necessary drainage with no surfacing involved.

#### **Lettings Held, Contracts Awarded, and Contracts Approved.**

(Refer to Schedules Nos. 11, 12, 13, and 14.)

Lettings held in seventy-five counties, on 166 projects, have resulted in the awarding of 377 contracts. 360 of these contracts covered work on the primary road system, 12 covered work on extensions of primary roads within cities, and 5 covered work on the secondary road system on which primary road funds were allotted. Of the 360 contracts on the primary road system, 358 contracts totaling \$6,063,025.66, have been approved, and 2 contracts totaling \$220,948.34, have been disapproved. Of the twelve contracts covering work on extensions of primary roads within cities, all were approved, amounting to \$535,300.52; five contracts involving work on the secondary system, amounting to \$11,638.69, have been approved, one of these contracts replacing a portion of another contract previously approved. (The 358 contracts approved for work on the primary system include constructing to

finished grade and draining 517.68 miles, gravel surfacing 293.88 miles, and hard surfacing with grading and draining incidental thereto on 82.59 miles. The twelve approved contracts for work on extensions of primary roads within cities include work on twelve city primary road projects and involve the hard surfacing of 12.70 miles. Schedule No. 11 gives the date of letting, the project numbers, the approximate length and location of project and type of improvement. Schedule No. 12 gives detailed information as to the name of contractor, quantities involved, unit prices, total amount of contract and action on same by the Commission, on all projects for work on the primary road system. Schedule No. 13 gives the same information with reference to work on projects that are located on extensions of primary roads within cities. Schedule No. 14 gives the same information with reference to work on the secondary system to which primary road funds have been allotted. Average prices for work awarded on the primary road system are as follows:

The contracts for building roads to established grade, with no surfacing included, involve moving 7,562,600 cubic yards of earth at an average price of \$0.2568 per cubic yard. The contracts for grading in connection with paving projects involve moving 316,300 cubic yards of earth at an average price of \$0.656 per cubic yard. The gravel surfacing work involved loading, hauling one mile and spreading 401,200 cubic yards of gravel at an average price of \$0.3806 per cubic yard, while the average price for each half mile haul on gravel additional to the first mile was \$0.0923 per cubic yard. The average price on 1,347,300 lineal feet of 6-inch tile drain complete was \$0.1165 per lineal foot. The average price on 934,500 square yards of concrete pavement was \$2.4352 per square yard.

#### **Secondary Road Contracts Approved.**

(a) *County Work Aside from Secondary Districts.* Refer to Schedule No. 15. Forty-three contracts, amounting to \$526,711.82 have been approved for secondary road work aside from contracts in connection with secondary road districts.

(b) *Secondary Road District Contracts.* Refer to Schedule No. 16. Twenty-one contracts, amounting to \$135,546.22, have been approved for work in connection with secondary gravel surfacing districts.

#### **Secondary Road Districts Established. Refer to Schedule No. 17.**

Forty-five secondary road districts, proposing the gravel surfacing of 184.82 miles in fifteen counties, have been established.



Lands included in the proposed special assessment districts total 185,875 acres.

## SCHEDULE NO. 4

FEDERAL AID PROJECT STATEMENTS APPROVED BY BUREAU OF PUBLIC ROADS  
DECEMBER 1, 1922-DECEMBER 1, 1923

County	Project No.	Length In Miles				Estimated Cost	Federal Aid Requested
		Grading	Gravel	Paving	Total		
Allamakee	197	7.80			7.80	\$ 27,086.40	\$ 13,500.00
Black Hawk	200	13.75	13.75		27.50	266,500.75	190,000.00
Black Hawk	201	11.45	11.45		22.90	329,247.60	164,500.00
Black Hawk	202	6.80	6.80		13.60	183,701.76	90,000.00
Clayton	166	9.80			9.80	29,658.20	14,800.00
Clinton	186	2.40			2.40	100,787.50	45,800.00
Clinton	204	14.53	14.53		29.06	451,673.20	217,500.00
Clinton	205	1.50	1.50		3.00	52,519.28	23,700.00
Greene	163	16.92	16.92		33.84	96,416.90	49,700.00
Greene	164	16.67	16.67		33.34	165,794.25	252,800.00
Hancock	166	11.07	11.07		22.14	51,983.80	25,900.00
Howard	190	10.14	10.14		20.28	84,904.73	45,000.00
Keokuk	191	15.42			15.42	109,172.74	54,000.00
Plymouth	192	17.50			17.50	167,430.40	83,700.00
Polk	187	9.00	9.00		18.00	284,988.00	142,000.00
Polk	199	2.50	2.50		5.00	102,194.40	49,000.00
Taylor	196	9.91			9.91	61,805.00	32,000.00
Woodbury	188	8.00			8.00	953,129.00	130,000.00
Total	18	185.81	27.06	87.16	380.03	\$3,307,640.72	\$ 1,625,900.00

Note:—Fayette County Federal Aid Project No. 168 reported in 1922 Annual Report as approved, has since been withdrawn. This project involved 13.15 miles of grading and draining at an estimated cost of \$37,000.00, on which \$28,500.00 had been requested from the Bureau of Public Roads.

## SCHEDULE NO. 5

PRIMARY ROAD PROJECTS APPROVED BY HIGHWAY COMMISSION  
DECEMBER 1, 1922-DECEMBER 1, 1923

County	Project No.	Length In Miles				Estimated Cost
		Grading	Gravel	Paving	Total	
Adair	398	4.50			4.50	\$ 29,394.00
Appanoose	364	5.25			5.25	41,382.00
Black Hawk	302	11.75			11.75	58,587.00
Black Hawk	331			5.46	5.46	4,900.77
Bremser	384	5.16			5.16	13,728.00
Buena Vista	49	3.69			3.69	29,068.70
Calhoun	300	1.60	1.00		2.60	6,629.12
Cherokee	225		22.16		22.16	61,712.30
Cedar	114	18.51			18.51	96,953.50
Cedar	316	3.09			3.09	25,462.34
Clark	313	10.37			10.37	60,947.58
Clark	323	4.00			4.00	13,610.00
*Clay	FA 196					71,678.00
Clayton	346	0.48			0.48	1,908.12
Clayton	358	8.32			8.32	42,358.00
Clinton	272	1.50			1.50	5,602.75
Crawford	298	13.35	13.35		26.70	100,655.23
Crawford	299	14.08	14.08		28.16	100,655.23
Decatur	318	7.89			7.89	32,944.70
Decatur	319	4.79			4.79	15,831.00
Delaware	328	1.07	1.07		2.14	6,111.00
Emmet	301	2.01	2.01		4.02	15,400.00
Franklin	334	0.28	1.12		1.40	7,594.40
Greene	347	1.97			1.97	65,838.00
Greene	348	1.51			1.51	55,897.75

## SCHEDULE NO. 5—Continued

County	Project No.	Length in Miles					Estimated Cost
		Grading	Gravel	Paving	Tiling	Total	
Greene	357		3.01			3.01	7,667.00
Grundy	228	5.00				5.00	20,240.00
Hamilton	244		8.79			8.79	12,335.40
Hardin	331	0.87	0.87			1.74	29,006.97
Harrison	330	11.88				11.88	76,516.00
Iowa	312	7.80				7.80	45,666.50
Johnson	302	9.07				9.07	35,400.40
Johnson	310	2.93				2.93	11,665.00
Johnson	311	5.06				5.06	25,000.00
Lucas	343			0.07		0.07	2,232.84
Linn	378	4.50				4.50	24,944.02
Lyon	307		12.53			12.53	50,600.00
Marion	315	12.92				12.92	31,815.00
Marion	320	6.80				6.80	57,335.00
Marion	322	9.30				9.30	42,480.00
Monroe	294	9.06				9.06	28,309.29
O'Brien	335	6.77				6.77	35,803.37
Oceola	350		3.00			3.00	10,608.44
Plymouth	340						2,770.18
Plymouth	353	2.77				2.77	85,286.45
Pocahontas	329	1.43	12.08		12.07	24.15	133,496.71
Polk	349	0.80				0.80	31,916.22
Pottawattamie	297	12.85				12.85	13,739.00
Pottawattamie	298	5.28				5.28	90,569.83
Sioux	314	1.03				1.03	4,740.25
Sioux	327		12.73			12.73	6,803.78
Sioux	342	1.29	1.25			2.54	8,557.78
Story	292	1.07	1.07			2.14	20,050.80
*Story	323						58,055.00
Tama	309	8.56				8.56	30,378.75
Taylor	363	6.25				6.25	46,325.31
Warren	284		3.22			3.22	51,505.00
Warren	321	6.84				6.84	30,331.40
Wayne	221		11.65			11.65	65,515.29
Webster	182		11.32			11.32	19,822.40
Webster	183		15.06			15.06	47,483.84
Webster	345	1.48				1.48	36,098.75
Worth	85	12.00	12.00			24.00	14,667.50
Wright	119	6.94	6.94			13.88	
Wright	341	2.00	2.00			4.00	
Total	66	301.67	171.42	3.55	44.04	454.17	\$ 2,269,224.42

\*Only bridges included.  
\*Only guard rail included.

## SCHEDULE NO. 6

CITY PRIMARY PROJECTS APPROVED BY HIGHWAY COMMISSION  
DECEMBER 1, 1922-DECEMBER 1, 1923

City	Project No.	Length of Paving	Distribution of Cost				Estimated Cost
			Special Assessment	City Funds	Primary Road Funds		
Belle Plaine	C-6	1.44 ml.	\$ 45,944.01		\$ 24,000.00		\$ 69,944.01
Iowa Falls	C-17	1.35 "	40,472.40	\$ 9,779.47	17,000.00		67,251.87
Carroll	C-19	1.95 "	44,260.80	2,000.00	19,000.00		65,360.80
Iowa Grove	C-20	0.93 "	14,790.00		15,000.00		29,790.00
Dew Moines	C-21	2.38 "	44,317.71		30,166.54		74,484.25
Clear Lake	C-22	0.54 "	16,875.50	500.00	3,500.00		20,875.50
Ottumwa	C-23	1.00 "	22,136.70		22,136.70		44,273.40
Chariton	C-24	1.17 "	18,856.93	2,608.78	14,000.00		35,465.71
Nevada	C-25	0.82 "	5,918.50	9,944.79	12,654.00		28,517.29
Manchester	C-26	1.21 "	29,288.41	12,103.01	17,217.00		58,608.42
Lake City	C-27	0.98 "	51,791.00	7,000.00	15,807.00		74,598.00
Totals	11	13.86 "	\$333,552.56	\$ 43,725.96	\$ 190,788.94		\$ 568,067.46

## SCHEDULE NO. 7

SECONDARY PRIMARY PROJECTS APPROVED BY HIGHWAY COMMISSION  
DECEMBER 1, 1922-DECEMBER 1, 1923

County	Project No.	Length in Miles			Estimated Cost
		Grading	Gravel	Total	
Buena Vista	1		6.07	6.07	\$ 14,290.00
Emmet	2	5.25	5.25	10.50	20,738.12
Emmet	3	6.00	6.00	12.00	30,019.00
Emmet	4	3.50	3.50	7.00	18,961.25
Emmet	5	3.00	3.00	6.00	14,772.75
Emmet	6	1.00	1.00	2.00	5,325.00
Emmet	7	5.00	5.00	10.00	22,025.80
Emmet	8	13.00		13.00	33,210.10
Calhoun					
Total	8	36.75	29.82	66.57	\$ 178,954.02

## SCHEDULE NO. 8

PLANS, SPECIFICATIONS AND ESTIMATES ON FEDERAL AID PROJECTS SUBMITTED TO BUREAU OF PUBLIC ROADS  
DECEMBER 1, 1922-DECEMBER 1, 1923

County	Project No.	Length in Miles				Estimated Cost	Federal Aid Requested
		Grading	Gravel	Paving	Total		
Adair	173	7.73		7.73	15.46	\$ 62,500.85	\$ 31,250.00
Black Hawk	200	13.75	13.75		27.50	400,080.74	200,000.00
Black Hawk	201	11.45	11.45		22.90	340,008.00	170,000.00
Black Hawk	202	6.80	6.80		13.60	221,029.76	100,000.00
*Clayton	74	21.86			21.86	108,497.54	56,300.00
Clayton	166	9.80			9.80	26,022.00	10,400.00
Clinton	186	1.61	1.61		3.22	46,614.16	28,000.00
Clinton	187	2.68	2.68		5.36	110,960.58	43,700.00
Clinton	204	14.53	14.53		29.06	405,415.78	217,500.00
Clinton	205	1.50	1.50		3.00	40,237.70	22,500.00
Clinton	206					58,035.45	28,900.00
Davis	158	14.36			14.36	5,337.00	4,100.00
*Fayette	172					114,833.90	57,000.00
Greene	163	16.92	16.92		33.84	876,829.66	280,000.00
Greene	203	16.67			16.67	57,798.28	28,800.00
Greene	196	11.07			11.07	80,747.61	42,500.00
*Harrison	153	7.36			7.36	106,181.35	52,500.00
Howard	190	10.14	10.14		20.28	87,800.98	43,900.00
Kossuth	163	13.95			13.95	120,032.92	60,000.00
Jones	191	15.42			15.42	188,376.96	81,427.88
*Linn	96	0.42	5.30		5.72	85,796.87	42,800.00
*Mahaska	70	3.66			3.66	5,432.85	2,660.00
*Monona	146	0.31			0.31	73,665.20	30,700.00
Page	187	32.31			32.31	88,053.35	44,000.00
Page	178	15.30			15.30	86,148.35	42,500.00
*Plymouth	182	12.58			12.58	228,472.36	114,200.00
Polk	187	9.06	9.06		18.12	323,115.56	147,000.00
Polk	199	2.50	2.50		5.00	111,220.74	40,000.00
Scott	14	5.45	5.45		10.90	173,569.68	86,400.00
*Union	83	32.72			32.72	38,324.95	14,900.00
*Woodbury	2		16.50		16.50	679,502.75	240,927.52
*Woodbury	2					90,537.83	30,750.00
Woodbury	188	8.00			8.00	283,853.06	130,000.00
Woodbury	2		17.08		17.08	613,999.70	250,818.88
Totals	347	278.36	58.92	133.48	470.76	\$ 6,017,075.40	\$ 2,758,352.94

\*Modified projects showing increase or decrease since previous reports.

†Includes one bridge.

‡Includes bridges and culverts.

§Includes projects or parts of projects; also projects modified.

## SCHEDULE NO. 9

PLANS, SPECIFICATIONS AND ESTIMATES FOR PRIMARY ROAD PROJECTS SUBMITTED TO BOARD OF SUPERVISORS  
DECEMBER 1, 1922-DECEMBER 1, 1923

County	Project No.	Length in Miles				Estimated Cost
		Grading	Gravel	Paving	Total	
Allamakee	227	2.00			2.00	\$ 47,907.53
Allamakee	305	2.68			2.68	11,693.38
Appanoose	227	2.51			2.51	14,310.64
Black Hawk	342	11.45			11.45	71,738.10
Black Hawk	331			5.45	5.45	4,900.17
Bremer	277	14.08			14.08	67,824.87
Bremer	334	5.16			5.16	21,307.06
Buchanan	339	6.02			6.02	27,331.62
Buchanan	300	1.91	1.91		3.82	65,408.44
Buena Vista	49	3.49			3.49	29,098.70
Butler	167	1.13			1.13	11,568.57
Butler	267	14.16	14.16		28.32	113,749.61
Cherokee	151	5.21			5.21	27,777.74
Cherokee	295		22.16		22.16	92,485.36
Cedar	114	18.81			18.81	96,922.50
Clarke	316	3.00			3.00	22,463.34
Clarke	313	10.37			10.37	69,916.74
Clay	56		7.96		7.96	14,389.10
Clay	256	2.45		15.98	18.43	26,560.65
Clay	239	24.09	5.54		29.63	40,456.05
*Clayton	156	0.23			0.23	2,155.58
Clayton	346	0.48			0.48	1,908.12
Clayton	258	8.32			8.32	42,684.87
Clinton	272	1.50			1.50	5,082.76
Clinton	351	14.52			14.52	71,102.29
Crawford	288	3.45	7.43		10.88	33,779.54
Crawford	380	7.27			7.27	43,341.76
Dallas	902	9.02	4.04		13.06	45,300.27
Decatur	122	1.15			1.15	16,370.91
Decatur	318	7.88			7.88	35,338.92
Decatur	319	4.79			4.79	28,122.25
Delaware	236	8.46			8.46	63,754.28
Delaware	338	1.07	1.07		2.14	5,094.21
Des Moines	273	1.50		1.50	3.00	47,000.30
Fayette	143		2.91		2.91	5,458.64
Floyd	268	6.22	6.22		12.44	43,800.64
Floyd	349	4.83			4.83	26,188.48
Franklin	354	3.28			3.28	16,912.12
Greene	347	1.97		1.97	3.94	64,585.51
Greene	348	1.81			1.81	52,515.01
Greene	357		3.91		3.91	7,021.21
Hamilton	317	6.16			6.16	30,687.88
Hamilton	318	5.95			5.95	25,906.74
Hamilton	344		5.79		5.79	12,335.40
Hardin	86	1.07			1.07	4,305.49
Harrison	330	11.88			11.88	76,687.88
Ida	101	0.44			0.44	277.27
Johnson	307	20.36			20.36	106,238.90
Johnson	310	3.66			3.66	21,472.55
Johnson	311	5.05			5.05	40,106.06
Kossuth	6	1.49			1.49	21,773.95
Kossuth	283	0.11	0.11		0.22	2,756.00
Linn	221	1.96			1.96	9,887.25
Linn	293	2.01			2.01	29,288.98
Linn	345			0.07	0.07	2,232.84
*Louis	75	-0.31			-0.31	1,095.27
Louis	179	7.00			7.00	34,867.25
Lyon	229	15.82			15.82	96,586.06
Lyon	292		4.83		4.83	3,111.00
Lyon	307		12.58		12.58	34,094.02
Marion	75	8.01			8.01	41,887.25
Marion	248	2.37			2.37	27,943.52
Marion	315	12.92			12.92	41,502.33
Marion	320	2.79			2.79	11,804.97
Marion	322	7.41			7.41	41,804.97
Marshall	240	7.57			7.57	45,028.06
Monona	38	6.67			6.67	32,619.52
Monroe	78	2.96			2.96	37,632.56



## IOWA STATE HIGHWAY COMMISSION

SCHEDULE NO. 9—Continued

County	Project No.	Length in Miles				Estimated Cost
		Grading	Gravel	Paving	Tiling	
Monroe	294	9.05				30,164.04
Muscatine	305	11.55				71,518.04
O'Brien	335	6.77				28,390.29
Osceola	335		10.88			35,863.37
Plymouth	350		3.00			12,637.54
Plymouth	353	2.77				20,486.18
Pocahontas	339	1.43	12.08		19.07	43,735.56
Polk	349	0.56				4,339.72
Pottawattamie	297	12.85				106,221.90
Pottawattamie	298	5.28				21,916.77
Rac	319	5.05				25,391.77
Rac	304	5.05				20,395.65
Sioux	223		13.44			13,440.00
Sioux	314	1.03				1,030.00
Sioux	386		13.80			13,800.00
Sioux	387		12.73			38,223.75
Sioux	343	1.29	1.29			5,470.52
Story	231		1.25			2,432.75
Story	262	1.07	1.07			6,861.75
Story	302					5,391.76
Tama	300	8.56				45,541.67
Tama	44	8.36				53,025.36
Warren	284		2.25			6,014.56
Warren	221	6.84				40,474.90
Washington	306		51.58			94,740.88
Wayne	317	11.67				22,839.50
Webster	184	6.00				2,052.71
Webster	182		11.32			30,629.67
Webster	183		6.45			19,424.65
Webster	184		5.49			30,245.86
Webster	343	1.48	1.48			14,242.41
Winnebago	130	0.34				1,561.61
Woodbury	2	16.52				91,814.00
Winnebago	177	14.01				12,336.87
Wright	199	6.94	6.94			36,098.75
Wright	341	2.00	2.00			15,066.86
Total	104	687.91	365.28	7.07	56.81	748.48 \$ 3,944,000.82

Guard rail project only.

Extensions.

Modified.

## DEPARTMENT OF ROAD ADMINISTRATION

SCHEDULE NO. 10

PROJECT AGREEMENTS EXECUTED BY SECRETARY OF AGRICULTURE,  
DECEMBER 1, 1922—DECEMBER 1, 1923.

County	Project No.	Length in Miles				Estimated Cost	Federal Aid Requested
		Grading	Gravel	Paving	Tiling		
Adair	173	5.40				\$ 52,735.42	\$ 26,300.00
Adair	173	7.73				62,500.86	31,250.00
Adair	301					12,000.00	12,000.00
Adair	154		9.46			21,044.44	10,500.00
Adair	44	17.77				139,086.07	21,804.00
Adair	109	5.02	5.02			34,419.51	17,200.00
Adair	74		31.86			108,492.54	54,200.00
Adair	156					18,891.90	9,500.00
Adair	180	4.39		4.39		100,820.35	71,000.00
Adair	180	2.09		2.09		110,080.58	43,700.00
Adair	158	14.30				78,635.45	39,300.00
Adair	172	13.50				74,433.83	37,000.00
Adair	179	16.92				114,333.00	57,000.00
Adair	179	2.85				25,637.17	12,800.00
Adair	163	11.07				57,788.28	28,800.00
Adair	151	7.26				85,742.61	42,500.00
Adair	109	10.14	10.14			105,181.37	52,500.00
Adair	144	12.29				114,564.03	57,000.00
Adair	162	21.53				126,611.56	63,300.00
Adair	191	15.42				120,632.92	60,000.00
Adair	70	9.80				50,636.12	25,300.00
Adair	127	10.22				127,032.20	63,500.00
Adair	146	0.11				5,430.85	2,700.00
Adair	184	24.26				79,565.30	39,700.00
Adair	137	12.31				88,633.35	44,000.00
Adair	178	16.30				87,148.25	43,500.00
Adair	150	15.20				60,519.92	30,000.00
Adair	192	17.50				228,472.35	114,200.00
Adair	187	9.05				323,115.76	161,000.00
Adair	150	2.50				111,280.74	55,600.00
Adair	141	5.97				29,261.98	14,600.00
Adair	142	5.00				29,728.70	14,800.00
Adair	54	5.43				73,900.00	36,900.00
Adair	15	1.58				166,067.60	77,600.00
Adair	185	5.09				184,322.10	92,100.00
Adair	176	6.28				28,701.47	14,300.00
Adair	81	0.90				22,115.70	11,000.00
Adair	149	12.90				84,569.47	42,200.00
Adair	83	3.72				28,324.95	14,000.00
Adair	129	17.05				100,790.49	50,300.00
Adair	182	5.08				35,418.02	17,700.00
Adair	98	6.25				44,500.14	22,200.00
Adair	2		17.68			613,999.70	306,516.88
Adair	182	7.65				44,742.90	22,300.00
Adair	186	8.00				277,817.14	138,900.00
Total	344	329.44	72.40	00.38	320.44	\$4,236,098.47	\$ 2,098,992.50

Modified.

Cancelled.

Includes one bridge.

This schedule includes projects or portions of projects new or modified.

## SCHEDULE NO. 11

LETTINGS HELD ON FEDERAL AID, PRIMARY AND CITY PRIMARY ROAD PROJECTS  
DECEMBER 1, 1952 - DECEMBER 1, 1953

County	Date	Project No. Federal Primary	Location of Road	Type of Improvement
Adams	7-20-23	305	West of Postville	Grading 1.37 miles
Adams	6-14-23	227	From Moulton north	Grading and draining 9.26 miles
Benton	3-27-23	4	Belle Plaine	Paving 16,302 sq. yds.
Black Hawk	8-7-23	323	From Cedar Falls southwest	Draining 5.46 miles
Black Hawk	8-16-23	302	Between Waterloo and Janesville	Grading and draining 11.45 miles
Black Hawk	8-22-23	62	East of Waterloo and west of Cedar Falls	Guard rail
Black Hawk	10-16-23	300	From Waterloo southeast	Paving 13.78 miles
Black Hawk	10-16-23	301	Between Waterloo and Janesville	Paving 11.45 miles
Black Hawk	10-16-23	302	From Waterloo southwest	Paving 6.86 miles
Bremer	7-11-23	334	North and south of Denver	Draining five miles
Bremer	7-11-23	277	From Tripoli southwest	Draining 10.00 miles
Bremer	3-16-23	306	In the town of Jenua	Paving 1.91 miles
Bureau	8-25-23	37	Alta extension	Grading, draining and graveling 0.96 mile
Bureau Vista	9-4-23	49	Various jobs near Storm Lake	Grading and draining 3.29 miles
Bureau Vista	9-4-23	S-1	North and south of Alta	Grading 6.07 miles
Butler	4-17-23	167	C. & N. W. Crossing east of Parkersburg	Grade separation 0.41 mile
Butler	6-25-23	167	West and north of Shell Rock and south-east of Parkersburg	Graveling 13.73 miles
Butler*	9-17-23	167	East of Green; west of Shell Rock; north and east of Parkersburg	Guard rail
Calhoun	6-1-23	C-27	Lake City	Grading and paving 10,000 sq. yds.
Carroll	4-23-23	C-19	Carroll	Grading and paving 12,818 sq. yds.
Cedar	3-29-23	336	From Rochester east	Grading and draining 3.00 miles
Cedar	3-29-23	314	From Jones County line south via Tipton and Rochester	Grading and draining 18.81 miles
Cedar	9-21-23	314	West of Rochester	Guard rail and baffles
Cerro Gordo	4-29-23	C-25	Clear Lake	Grading and paving 5,744 sq. yds.
Cerro Gordo	9-11-23	275	Between Thornton and Clear Lake	Graveling 12.43 miles
Cherokee	4-10-23	295	From Cherokee east and north; and south of Larrabee	Graveling 22.12 miles
Cherokee	9-18-23	214	From Quincy northeast	Guard rail
Cherokee	10-2-23	151	South of Cherokee	Grading and draining 5.21 miles
Chickasaw	9-16-23	151	Bassett and east	Grading and draining 3.94 miles
Clarke	4-25-23	332	From Osceola east	Guard rail
Clay	3-19-23	56	East and west through Peterson	Graveling 7.36 miles
Clay*	7-19-23	96	From Peterson to O'Brien County line	Graveling 1.00 miles
Clay	7-19-23	254	South of Spencer	Graveling 15.50 miles
Clay	8-1-23	254	From Spencer east and west	Grading and draining 3.75 miles
Clay	8-1-23	256	From Spencer south	Grading 1.79 miles
Clayton	2-5-23	74	Northeast of Elkader	Guard rail
Clayton	7-19-23	346	Southeast of Postville	Grading 0.48 mile
Clinton	3-26-23	190	From DeWitt south	Paving and grading 2.79 miles
Clinton	3-26-23	190	In DeWitt	Grading and paving 1.61 miles
Clinton	3-26-23	190	From Lyons west	Grading, draining and paving 2.60 miles
Clinton	6-25-23	271	Northwest of Delmar	Grading 2.12 miles
Clinton	8-25-23	147	Primary road number 6	Guard rail
Clinton	8-25-23	332	Lyons-Charlotte	Grading and draining 14.32 miles
Clinton	10-31-23	272	Between Clinton and Camanche	Grading 1.50 miles
Clinton	11-27-23	304	Between Lyons and Charlotte	Paving 14.54 miles
Clinton	11-27-23	305	Between Clinton and Camanche	Paving 1.29 miles
Crawford	5-9-23	288	From Deloit north to county line	Grading 3.33 miles and graveling 7.31 miles
Crawford	8-9-23	289	Between Denison and Vall	Grading and draining 7.27 miles
Crawford	10-22-23	8	West of Charter Oak	Guard rail
Dallas	1-19-23	196	Northeast of De Witt	Grading and draining 1.04 miles
Davis	4-26-23	156	From Bloomfield southwest	Grading and draining 14.36 miles
Davis	9-7-23	153	West and south of Bloomfield	Guard rail
Decatur	6-12-23	122	Leon extension	Grading 0.79 mile
Decatur	6-12-23	318	North of Leon	Grading 2.44 miles
Delaware	5-3-23	338	Earlville	Grading and draining 1.07 miles
Delaware	5-3-23	236	From Thorpe north to Clayton County	Grading and draining 8.16 miles
Delaware	6-12-23	C-26	In Manchester	Grading and paving 39,690 sq. yds.
Delaware	8-25-23	328	Through Earlville	Graveling 1.19 miles
Delaware	10-17-23	103	South of Manchester	Guard rail
Delaware	10-17-23	236	From Thorpe north to Clayton County	Guard rail
Des Moines	12-10-23	273	Agnew, West Hurlington and Mt. Pleasant roads	Paving, grading and draining 1.50 miles
Des Moines	12-14-22	C-18	Streets in Burlington	Paving 1.44 miles
Dubuque	12-5-22	148	Southeast of Richardsville to Clayton County line	Grading and draining 14.24 miles
Dubuque	6-19-23	17	Southwest of Dubuque	Guard rail
Dubuque	8-28-23	148	Northwest of Dubuque	Guard rail
Fayette	9-4-23	59	Various primary roads	Guard rail
Fayette	9-4-23	59	From Osceola	Graveling 4.48 miles
Floyd	3-14-23	300	From Charles City east	Draining 3.80 miles
Floyd	3-14-23	298	From Rockford north	Grading and draining 6.22 miles
Franklin	6-6-23	171	From Coitler to the Wright County line and south of Hansell to the Butler County line	Gravel and guard rail 12.05 miles
Franklin	10-19-23	334	Shelfield	Grading 0.28 mile and graveling 1.12 miles
Greene	7-19-23	345	North of Jefferson to county line	Grading and paving 1.51 miles
Greene	7-19-23	347	Grand Junction	Grading and paving 1.98 miles
Greene	11-30-23	302	Scranton	Grading and paving 17.62 miles
Greene	11-30-23	302	Lincoln highway to county line	



County	Date	Project No.		Location of Road	Type of Improvement
		Federal	Primary		
Hamilton	6-5-23		344	From Webster City west	Graveling 5.79 miles
Hamilton	3-27-23		217	North of Blairsburg	Draining 4.98 miles
Hamilton	3-27-23		218	From Highview north	Grading and draining 5.95 miles
Hancock	7-3-23	195		Between Britt and Kanawha	Grading and draining 11.07 miles
Hancock	8-2-23		94	West of Garner	Guard rail
Hancock	8-2-23	139		North and south of Garner	Guard rail
Hardin	7-17-23		88	Ackley extension	Grading, draining and graveling 1.07 miles
Henry	9-1-23	151		From Mt. Pleasant west	Grading and draining 7.26 miles
Howard	4-3-23		103	From Elma east and north	Graveling 14.41 miles
Howard	6-11-23		103	From the south county line north	Grading 1.80 miles
Howard	6-11-23	190		From Line Springs south	Draining 10.4 miles
Howard*	9-26-23	93		East and west through Saratoga	Guard rail
Howard	9-26-23		103	East of Elma	Guard rail
Howard	4-3-23		103	From Elma east	Graveling 10.41 miles
Ida	5-3-23		174	Between Holstein and Ida Grove	Graveling 8.63 miles
Jefferson	6-28-23	120		Fairfield to Van Buren County line	Guard rail
Jefferson	12-9-22	120		South of Fairfield	Baffle materials—no bids received
Jefferson	6-28-23	129		From Fairfield south	Draining
Johnson*	12-27-23		207A	From North Liberty north	Grading and draining 9.07 miles
Johnson	1-10-23		207	From North Liberty north	Grading and draining 9.07 miles
Johnson	6-26-23		310	Washington County line north and east	Grading and draining 3.93 miles
Johnson	6-27-23		207	From Tiffin northwest	Grading and draining 11.28 miles
Johnson	10-17-23		207	From North Liberty north	Riprap
Johnson*	10-4-23		207	From North Liberty north	Riprap
Jones	11-28-22	103		Between Anamosa and Wyoming	Grading and draining 7.61 miles
Jones	9-11-23	103B		From Wyoming west	Grading and draining 7.62 miles
Keokuk	4-27-23	191		Northeast of Sigourney	Grading and draining 15.42 miles
Keokuk	7-25-23		128	From Sigourney east	Guard rail
Kossuth	8-8-23		6	From Algona south	Grading 1.50 miles
Lee	10-3-23		149	Between Montrose and Mt. Clare	Guard rail
Linn*	12-12-22	96		Seedling mile southeast to Cedar County line	Paving 5.50 miles
Linn*	8-23-23		345	From Lisbon east	Paving 0.07 mile
Louisa	8-7-23		75	Southeast and north of Grandview	Grading and draining 9.95 miles
Louisa*	9-11-23		179	From Wapello south	Grading 7.00 miles
Louisa	9-27-23		179	From Wapello south	Grading 7.00 miles
Lucas	2-27-23		C-24	Chariton	Grading and paving 3,340 sq. yds.
Lyon	12-12-22		307	From South Dakota line southeast through Larchwood and Lester	Graveling 12.53 miles

Lyon	5-24-23		226	From Doon west	Grading and draining 15.82 miles
Lyon	8-10-23		292	From Rock Rapids north to state line	Graveling 4.83 miles
Mahaska	2-15-23	146		Northwest from Oskaloosa	Guard rail and baffles
Mahaska	2-15-23	70		North of Oskaloosa and southwest of Rose Hill	Guard rail and baffles
Mahaska	2-15-23	70		From Rose Hill to the Keokuk County line	Grading and draining 3.99 miles
Marion	8-8-23		315	Northeast and southwest of Pella	Grading 12.27 miles
Marshall	3-3-23		240	South of Marshalltown	Grading and draining 13.66 miles
Marshall	1-30-23		240	North of Marshalltown	Grading and draining 5.98 miles
Mitchell	5-29-23		138	West and northeast of Osage	Guard rail and gravel 13.18 miles
Mitchell	5-29-13	45		North and south of Osage	Guard rail
Monona	12-27-22		38	Southeast of Soldier	Grading and draining 6.67 miles
Monona	12-27-22	184		South of Whiting and northwest to Woodbury County line	Grading and draining 8.35 miles
Monona	4-17-23		38	Between Turin and Soldier	Sloping banks
Monona	5-15-23	184		Northwest and southeast of Onawa	Grading and draining 15.34 miles
Monona	5-15-23		38	Between Mapleton and Ute	Grading 1.22 miles
Monona	9-25-23		38	Between Soldier and Dunlap and between Mapleton and Ute	Guard rail and baffles
Monroe	9-29-23		C-16	Albia	Paving 0.56 mile
Monroe	6-1-23		294	Northwest of Albia	Grading and draining 9.05 miles
Monroe	6-1-23		78	Albia extension	Grading 0.96 mile
Monroe	6-11-23		78	Albia extension	Guard rail
Monroe	6-11-23		294	Albia northwest	Draining
Osceola	9-11-23		355	From Ocheyedan northeast	Gravel 10.88 miles
Page	6-5-23	137		East of Clarinda, northeast to Montgomery County line	Grading and draining 12.31 miles
Page	6-5-23	178		Clarinda south to county line	Grading and draining 16.30 miles
Page	7-17-23		27	Railway crossing east of Shenandoah	Grading
Plymouth	6-12-23	192		From the south county line north	Grading and draining 17.88 miles
Plymouth	10-3-23		181	From Kingsley north	Baffles
Plymouth	10-3-23		353	Southwest from LeMars	Grading 2.77 miles
Plymouth	10-3-23		350	Between LeMars and Sioux City	Graveling 3 miles
Plymouth	10-18-23		39	West from LeMars	Guard rail and baffles
Plymouth	10-18-23		74	Southwest of LeMars	Guard rail and baffles
Pocahontas	6-19-23		339	North and east of Pocahontas; south of Rolfe	Grading 1.43 miles and graveling 8.00 miles
Pocahontas	7-24-23		90	Fonda	Grading and draining 0.61 miles
Pocahontas	11-6-23		339	Pocahontas	Graveling 0.50 mile
Pocahontas	10-2-23		339	Gilmore City	Graveling 0.50 mile
Pocahontas	6-19-23		339	From Rolfe south and from Pocahontas north	Graveling 12.09 miles
Polk	12-23-22	181		From Ankeny north	Paving and grading 9.06 miles
Polk	5-15-23		244	River to River road	Draining
Polk	7-9-23	199		From Des Moines to Norwalk	Grading, draining and paving 2.50 miles
Polk	9-15-23		349	From Des Moines northeast	Grading and draining 0.56 mile
Polk	8-23-23		C-21	Des Moines	Paving 2.38 miles
Poweshiek	9-21-23	174		From Malcolm south	Guard rail



## SCHEDULE NO. 11—Continued

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IOWA STATE HIGHWAY COMMISSION

County	Date	Project No.		Location of Road	Type of Improvement
		Federal	Primary		
Poweshiek	9-21-23		247	From Malcolm north	Draining
Ringgold	12-12-22	98		C. G. W. Crossing east of Benton	Grading
Ringgold	12-12-22	141		From the Union County line south to Mt. Ayr	Grading 5.97 miles
Ringgold	12-12-22	142		West and northwest of Kellerton	Grading 5.90 miles
Ringgold	12-12-22	123		Crossings project	Grading
Sac	4- 4-23		210	Primary roads in towns	Grading and draining 5.05 miles
Sac	4- 4-23		304	West of Schaller	Draining 4.46 miles
Sac	4- 4-23		304	Southwest of Osceola	Draining and graveling 8.98 miles
Sac	4-12-23		304	From Schaller to the Ida County line	Graveling 4.46 miles
Sac	6-12-23		210	Primary roads in towns	Graveling 5.06 miles
Scott	9- 4-23	114		From Bettendorf to Pleasant Valley	Paving 0.11 mile
Scott	9- 4-23	55		From Leclaire to Pleasant Valley	Graveling 0.47 mile
Shelby	6-10-23		42	From Harlan west	Guard rail and baffles
Shelby	6- 6-23		42	West of Harlan	Guard rail
Shelby	5-19-23		42	East and west of Harlan	Guard rail
Sioux	3-14-23		198	From Orange City west	Graveling 13.99 miles
Sioux	3-14-23		336	From Maurice north towards Perkins	Graveling 13.80 miles
Sioux	3-14-23		337	From Hull west	Graveling 12.74 miles
Sioux	7- 6-23		223	From O'Brien County line west towards Alton	Grading 5.03 miles
Sioux	7- 6-23		314	From Sheldon west	Grading 1.03 miles
Sioux	7- 6-23		83	From Rock Valley east	Grading 0.43 mile
Story	2-20-23		332	Various parts of primary road system	Guard rail
Story	2-20-23		282	Midvale	Grading, draining and graveling 1.07 miles
Story	2-20-23		231	Between Ames and Huxley	Graveling 1.25 miles
Story	4-25-23		C-25	Nevada	Paving 9,100 sq. yds.
Taylor	11-13-23	149		From Bedford east	Baffles
Taylor*	10- 2-23	149		From Bedford east	Baffles
Union	5- 3-23	83		Between Alton and Talmage	Grading and draining 3.73 miles
Union	8- 7-23	83		From Talmage to the Adams County line	Guard rail
Van Buren	2- 1-23	165		Keosauqua to Davis County line via Milton and Cantril	Grading and draining 18.03 miles
Wapello	6-30-23		C-23	Ottumwa	Paving 16,013 sq. yds.
Wapello	9- 5-23	159		Northwest of Ottumwa	Guard rail
Warren	8-31-23		284	North of Norwalk	Gravel 2.23 miles
Washington	12-20-22		253	From the Jefferson County line northeast through Brighton	Grading and draining 9.30 miles
Washington	12-20-22		306	Washington north through Kalona	Graveling 15.21 miles

Washington	3-14-23	182		Between Washington and Sigourney	Grading and draining 5.08 miles
Webster	4- 5-23		182	Northwest and southwest through Morland	Gravel 11.32 miles
Webster	4- 5-23		184	Dayton and Harcourt	Graveling 6.49 miles
Webster	7-30-23		186	Town of Morland	Draining
Winnebago	5-22-23		120	From Forest City east	Grading 1.42 miles
Winnebago	6-28-23		120	From Forest City east	Grading 1.42 miles
Winnebago	10- 2-23		120	From Forest City east	Gravel 6.86 miles
Winneshiek	1-11-23	98		West and southeast of Decorah	Guard rail
Winneshiek	1-17-23		121	East and west of Decorah	Guard rail
Winneshiek	4- 4-23		C-15	Decorah	Paving 10,150 sq. yds.
Woodbury	2-15-23	2		Correctionville, Cushing and Sioux City to Smithland	Paving 17.68 miles
Woodbury	2-15-23	188		Salix southeast to Monona County line	Paving 8.00 miles
Woodbury	5-29-23	2		From Merville east	Grading and draining 16.21 miles
Woodbury	10-25-23	162		From Anthon south	Guard rail
Worth	2-20-23		216	From Fertile west and Northwood west	Grading and draining 9.50 miles
Worth	9- 4-23		216	From Kensett to Cerro Gordo County	Guard rail
Wright	5-16-23		341	East and west of Clarion	Grading and draining 2.00 miles
Wright	5-16-23		199	From Eagle Grove south	Grading and draining 6.94 miles

\*Bids rejected.

DEPARTMENT OF ROAD ADMINISTRATION

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## SCHEDULE NO. 12

CONTRACTS AWARDED, CONTRACTS APPROVED AND CONTRACTS DISAPPROVED ON PRIMARY ROAD AND FEDERAL AID PROJECTS,  
DECEMBER 1, 1922—DECEMBER 1, 1923.

County	Project Number		Contractor	Item	Estimated Quantities	Unit Price	Total Amount Contract	Action by Comm.	Date
	Federal	Primary							
Allamakee		395	C. McDonald	Excavation	12,002 cu. yds.	\$ 0.265	\$ 3,204.38	Approved.	9-24-23
Appanoose		227	Byers and Wilson	Excavation	43,439 cu. yds.				
Appanoose		227	Byers and Wilson	Excavation	98,850 cu. yds.	.28	39,846.52	Approved.	6-18-23
Appanoose		227	Byers and Wilson	Excavation	39,712 cu. yds.	.26			
Appanoose		227-C	Wm. Fitzgerald	Overhaul	25,800 sta. yds.	.02	10,841.12	Approved.	6-18-23
Appanoose		227-C	Wm. Fitzgerald	Type C guard rail	240 ft.	.44			
Appanoose		227-C	Wm. Fitzgerald	Type A guard rail	264 ft.	.235			
Appanoose		227-C	Wm. Fitzgerald	Type A guard rail	5,116 ft.	.235			
Appanoose		227	Henry Teget	Type A baffles	139	9.12	2,637.58	Approved.	7-2-23
Appanoose		227	Henry Teget	6" tile drain	1,756 ft.	.1325			
Appanoose		227	Henry Teget	8" tile drain	3,058 ft.	.18			
Appanoose		227	Henry Teget	18" tile drain	1,215 ft.	.85			
Appanoose		227	Henry Teget	Type B intakes	8	15.00			
Appanoose		227	Henry Teget	Intakes	2	30.00	1,995.86	Approved.	6-29-23
Black Hawk	62		Wheeler Lumber Co.	Guard rail posts	3,742	.62	2,320.04	Approved.	6-3-23
Black Hawk	62		Cedar Lumber Co.	4x4x8 braces	179	.4525			
Black Hawk				No. 9 wire	8,700 ft.				
Black Hawk				No. 9 fence	28,686 ft.				
Black Hawk				2x6x16 rails	1,846				
Black Hawk	62		Orr Const. Co.	2x8x16 rails	3,600		4,902.28	Approved.	9-8-23
Black Hawk			Orr Const. Co.	Guard rail labor	27,430 ft.	.185			
Black Hawk			Orr Const. Co.	Guard rail labor	1,256 ft.	.27			
Black Hawk			Orr Const. Co.	Guard rail labor	832 ft.	.18	5,563.43	Approved.	9-3-23
Black Hawk	200		Bryant Paving Co.	Excavation	19,254 cu. yds.	.90			
Black Hawk			Bryant Paving Co.	Conc. pavement	145,158 sq. yds.	2.39	364,256.22	Approved.	10-23-23
Black Hawk	201		Bryant Paving Co.	Excavation	5,760 cu. yds.	.90			
Black Hawk			Bryant Paving Co.	Conc. pavement	46,133 sq. yds.	2.44	117,804.92	Approved.	10-23-23
Black Hawk	201		Moore-Young Const. Co.	Excavation	9,237 cu. yds.	.70			
Black Hawk			Moore-Young Const. Co.	Conc. pavement	73,926 sq. yds.	2.54	194,237.94	Approved.	10-23-23
Black Hawk	202		Moore-Young Const. Co.	Excavation	21,456 cu. yds.	.70			
Black Hawk			Moore-Young Const. Co.	Conc. pavement	74,122.5 sq. yds.	2.54			
Black Hawk			Moore-Young Const. Co.	Adjust. price		.10			
Black Hawk			Moore-Young Const. Co.	Spec. intakes	10	100.00	204,290.35	Approved.	10-23-23
Black Hawk		233	Mankato Const. Co.	6" tile drain	59,219 ft.	.122			
Black Hawk		233	Mankato Const. Co.	10" tile drain	8,460 ft.	.262			
Black Hawk		233	Mankato Const. Co.	8" tile drain	18,140 ft.	.162			
Black Hawk		233	Mankato Const. Co.	Intakes	2	20.00			
Black Hawk		233	Mankato Const. Co.	Intake	1	18.00	12,437.92	Approved.	1-22-27

IOWA STATE HIGHWAY COMMISSION

Black Hawk		331	Anderson & Halverson	6" tile drain	31,105 ft.	.11			
Black Hawk		331	Anderson & Halverson	8" tile drain	400 ft.	.16			
Black Hawk		331	Anderson & Halverson	Intake	1	17.00	3,502.55	Approved	3-12-23
Black Hawk		331	Estimated over-runs	Overdepth and extras			350.00		
Black Hawk		331	Estimated over-runs	Engineering			450.00	Approved	
Black Hawk		302	J. A. Dunkel	Excavation	52,577 cu. yds.	.275			
Black Hawk		302	J. A. Dunkel	15" pipe labor	1,140 ft.	.25			
Black Hawk		302	J. A. Dunkel	18" pipe labor	256 ft.	.35			
Black Hawk		302	J. A. Dunkel	Overhaul	16,900 yds.	.02	15,171.28	Approved	9-29-23
Black Hawk		302	J. A. Dunkel	Excavation	38,802 cu. yds.	.275			
Black Hawk		302	J. A. Dunkel	Channel excav.	80,000 cu. yds.	.375			
Black Hawk		302	J. A. Dunkel	15" pipe labor	140 ft.	.25			
Black Hawk		302	J. A. Dunkel	18" pipe labor	20 ft.	.35			
Black Hawk		302	J. A. Dunkel	24" pipe labor	64 ft.	.45			
Black Hawk		302	J. A. Dunkel	Clear and grub	1.75 Ac.	100.00			
Black Hawk		302	J. A. Dunkel	Overhaul	263,940 yds.	.02	46,195.15	Approved	9-29-23
Bremer		228-B	Waverly Gravel & Tile Co.	Gravel f. o. b. Shell					
Bremer		228-B	Waverly Gravel & Tile Co.	Rock	6,000 cu. yds.	.40	2,400.00	Approved	12-9-22
Bremer		277	Nielsen & Nielsen	6" tile drain	54,390 ft.	.1085			
Bremer		277	Nielsen & Nielsen	8" tile drain	11,060 ft.	.1535			
Bremer		277	Nielsen & Nielsen	10" tile drain	1,005 ft.	.245			
Bremer		277	Nielsen & Nielsen	Intakes	6	20.00	7,966.60	Approved	7-29-23
Bremer		334	Nielsen & Nielsen	6" tile drain	29,520 ft.	.1085			
Bremer		334	Nielsen & Nielsen	Type A intakes	2	20.00			
Bremer		334	Nielsen & Nielsen	Type B intakes	2	15.00	3,272.92	Approved	7-28-23
Buchanan		300	Northern States Contracting Company	Excavation	5,644 cu. yds.	.70			
Buchanan		300	Northern States Contracting Company	Conc. pavement	20,192.3 sq. yds.	2.55	55,441.17	Approved	3-26-23
Buchanan		300	Cement Products Co.	6" drain	5,295 ft.	.122			
Buchanan		300	Cement Products Co.	8" drain	3,040 ft.	.17			
Buchanan		300	Estimated over-runs	Intake	1	25.00	524.82	Approved	7-9-23
Buchanan		300	Estimated over-runs	Excavation	2,500 cu. yds.	.70	175.00		
Buchanan		300	Estimated over-runs	Tile			150.00		
Buchanan		300	Estimated over-runs	Engineering			2,000.00	Approved	
Buena Vista	37		Jas. Clinton	Excavation	3,512 cu. yds.	.40			
Buena Vista	37		Jas. Clinton	Graveling	1,825 cu. yds.	.40	2,134.80	Approved	8-3-23
Buena Vista	37	Exten.	Robert Shaw	6" tile drain	2,350 ft.	.1595			
Buena Vista		37	Robert Shaw	Intakes	6	25.00	524.82	Approved	7-9-23
Buena Vista	49		J. G. Johnson	Excavation	15,654 cu. yds.	.32	5,009.28	Approved	10-2-23
Buena Vista	49		Scothorn & Hartzell	Excavation	8,088 cu. yds.	.36	2,893.68	Approved	10-2-23
Buena Vista	49		Jas. Clinton	Excavation	5,081 cu. yds.	.37	1,879.97	Approved	10-2-23
Buena Vista	49		Harry Peterson	6" drain	131,550 ft.	.1095			
Buena Vista		49	Harry Peterson	8" drain	1,000 ft.	.163	14,567.73	Approved	10-2-23
Butler		71	Waugh and Tackman	Type C guard rail	720 ft.	.19			
Butler		71	Waugh and Tackman	Type A guard rail	768 ft.	.15			
Butler		71	Waugh and Tackman	Type A guard rail	10,144 ft.	.075	1,012.82	Approved	10-8-23
Butler		71	Waugh and Tackman	(Labor only)					
Butler		71	Nebraska Br. & Supp. Co.	Guard rail posts	1,499	.595	891.90	Approved	10-8-23

DEPARTMENT OF ROAD ADMINISTRATION



## IOWA STATE HIGHWAY COMMISSION

SCHEDULE NO. 12—Continued

County	Project Number Federal, Primary	Contractor	Item	Estimated Quantities	Unit Price	Total Amount Contract	Action by Comm.	Date
Butler	71	Hunter Lumber Co.	Woven fence	10,412 ft.	.00076	412.06	Approved	10-6-23
Butler	85-D	Nebraska Br. & Supp. Co.	Guard rail posts	4,000	.000	80.00	Approved	10-6-23
Butler	85	Hunter Lumber Co.	Woven fence	422 ft.	.00076	12.40	Approved	10-6-23
Butler		Wang and Tuckman	Gravel 1 mi.	22 ft.	.19			
Butler	167	Hartman and Peterson	Type C guard rail	22 ft.	.15	42.50	Approved	10-6-23
Butler	167	Madler & Stevenson	Type A crossing (proj)	28,277 cu. yds.	.714	20,290.58	Approved	10-6-23
Butler	167	L. O. Kimball	Gravel 1 mi.	1,300 cu. yds.	.44	572.00	Approved	12-11-23
Butler			Gravel 1 mi.	6,412 cu. yds.	.40	2,564.80		
Butler			Gravel 1 mi.	13,613 cu. yds.	.45	6,120.75		
Butler	167	Hunter Lumber Co.	Woven wire	2,104 ft.	.00076	13.828	Approved	6-4-23
Butler	167	Wang and Tuckman	Type C guard rail	96 ft.	.19	18.24	Approved	10-6-23
Butler			Type A guard rail	112 ft.	.15	16.80		
Butler	167	Nebraska Br. Supp. Co.	Guard rail posts	1,285 ft.	.300	385.50	Approved	10-6-23
Butler	167	Estimated overruns				11,571.70	Approved	
Butler	207	Paulsen and James	5' tile drain	9,000 ft.	.118			
			5' tile drain	10,410 ft.	.182			
			10' tile drain	40 ft.	.253			
			10' tile drain	1,000 ft.	.300			
			Intakes	24	30.00			
			Excavation	250,000 cu. yds.	18.50			
			5' tile drain	1,300 ft.	.30			
			Intakes	377	26.00			
			12' tile drain	320 ft.	.15			
			Intakes	70	17.50			
			Type C guard rail	900	8.70			
			Baffles	500	.44			
			Type A guard rail	8,620	.156			
			Type A guard rail	8,620	.830			
			Baffles	668				
Cedar	114 BCD	Geo. W. Condon				15,825.37	Approved	6-11-23
Cedar	114	L. M. Olson				79,115.29	Approved	4-12-23
Cedar	114 BCD	Orr Const. Co.				10,197.42	Approved	4-12-23
Cedar	114 BCD	H. J. Murphy				2,068.00	Approved	4-12-23
Cedar	114 A	Orr Const. Co.				2,466.97	Approved	4-9-23
						5,432.00	Approved	10-6-23

## DEPARTMENT OF ROAD ADMINISTRATION

Cedar	114 A	Geo. Crechille	Type A guard rail	11,092 ft.	.184	2,041.96	Approved	10-6-23
Cedar	216	Geo. W. Condon	Type A guard rail	1,000 ft.	.42	420.00	Approved	4-12-23
Cedar	216	H. J. Murphy	Excavation	80,000 cu. yds.	.184	14,720.00	Approved	4-12-23
Cedar	216	L. M. Olson	Type A guard rail	288 ft.	.24	1,107.36	Approved	4-9-23
Cedar	216	Orr Const. Co.	Type A guard rail	288 ft.	.24	66.30	Approved	4-12-23
Cerro Gordo	275	E. J. Thraen	Gravel 1/2 mi.	4,474 ft.	.10	1,270.30	Approved	4-12-23
Cerro Gordo	275	Orr Const. Co.	Gravel 1/2 mi.	10,365 cu. yds.	.10	30,464.00	Approved	10-6-23
Cerro Gordo	275	Orr Const. Co.	Gravel 1/2 mi.	145,000 units	.0872	4,546.25	Approved	11-22-23
Cerro Gordo	275	Orr Const. Co.	Gravel at pit	10,365 cu. yds.	.35			
Cerro Gordo	275	Orr Const. Co.	Type C guard rail	416 ft.	.30			
Cerro Gordo	275	Orr Const. Co.	Type A guard rail	2,065 ft.	.288			
Cerro Gordo	275	Orr Const. Co.	Baffles	250	8.56			
Cerro Gordo	275	Orr Const. Co.	Excavation	96,568 cu. yds.	.17			
Cerro Gordo	275	Orr Const. Co.	F. E. excav.	300 ft.	.40			
Cerro Gordo	275	Orr Const. Co.	18' culv. labor	40 ft.	.45			
Cerro Gordo	275	Orr Const. Co.	Overhaul	87,500 cu. yds.	.02			
Cerro Gordo	275	Orr Const. Co.	Gravel at pit	2,000 cu. yds.	.35			
Cerro Gordo	275	Orr Const. Co.	Type A ed. rail	444	.44			
Cerro Gordo	275	Orr Const. Co.	Type A ed. rail	16,000 ft.	.35			
Cerro Gordo	275	Orr Const. Co.	Type A ed. rail	16,000 ft.	.35			
Cerro Gordo	275	Orr Const. Co.	Gravel 1/2 mi.	21,562 cu. yds.	.38			
Cerro Gordo	275	Orr Const. Co.	Gravel 1/2 mi.	179,600 cu. yds.	.06			
Cerro Gordo	275	Orr Const. Co.	Gravel 1/2 mi.	12,000 cu. yds.	.300			
Cerro Gordo	275	Orr Const. Co.	Gravel 1/2 mi.	29,500 cu. yds.	.09			
Cerro Gordo	275	Orr Const. Co.	Gravel strip	2,500 cu. yds.	.25			
Cerro Gordo	275	Orr Const. Co.	Gravel strip	12,323 cu. yds.	.30			
Cerro Gordo	275	Orr Const. Co.	Chas. Thraen	8,560 cu. yds.	.35			
Cerro Gordo	275	Orr Const. Co.	Gravel at pit	4,000 cu. yds.	.119			
Cerro Gordo	275	Orr Const. Co.	Excavation	20,471 cu. yds.	.275			
Cerro Gordo	275	Orr Const. Co.	5' drain tile	13,107 cu. yds.	.06			
Cerro Gordo	275	Orr Const. Co.	5' drain tile	12,500 ft.	.078			
Cerro Gordo	275	Orr Const. Co.	30' drain tile	3,729 ft.	.14			
Cherokee	131 B	A. L. Cook				4,280.06	Approved	10-6-23
Cherokee	214	L. R. Stansiek				28,812.41	Approved	11-14-23
Cherokee	214	N. S. Hamilton				500.00	Approved	5-5-23
Cherokee	214	Jorgensen & Jones				4,443.61	Approved	9-24-23
Cherokee	214	H. Fisher				1,367.90	Approved	12-18-23
Cherokee	214	A. H. Eimig				33,123.26	Approved	4-12-23
Cherokee	214	W. H. McDaniel				7,825.12	Approved	4-12-23
Cherokee	214	M. J. Gillman Co.				3,066.50	Approved	4-25-23
Cherokee	214	Fred Fuhrman				2,165.00	Approved	5-23-23
Cherokee	214	F. A. Arramian				16,246.07	Approved	5-23-23
Cherokee	214	Edwards and overruns				11,116.47	Approved	10-23-23
Cherokee	214	A. M. Rind				2,316.00	Approved	9-24-23
Cherokee	214	J. J. Meyers						
Chickasaw	10-A							
Chickasaw	100							

## SCHEDULE NO. 12—Continued

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County	Project Number		Contractor	Item	Estimated Quantities	Unit Price	Total Amount Contract	Action by Comm.	Date
	Federal	Primary							
Chickasaw	160-A		H. Williams	6" drain	24,552 ft.	.07			
				8" drain	16,700 ft.	.0825			
				10" drain	2,750 ft.	.103			
				Type A Intakes	3	22.00			
				Type B Intakes	5	14.00	3,185.64	Approved	11-3-23
Clarke		313	Standard Bridge Co.	Guard rail	688 ft.	.32			
				Guard rail	6,662 ft.	.19			
				Baffles	618	8.75	6,803.44	Approved	2-28-23
Clarke		313	Hysham and Carns	Excavation	134,665 cu. yds.	.235			
				Excavation	11,796 cu. yds.	.38	36,128.76	Approved	2-28-23
Clarke		313	Geo. Cronkhite	8" drain	1,250 ft.	.21			
				24" drain	800 ft.	1.18			
				Intakes	4	24.50			
				Intakes	2	42.50	1,460.30	Approved	2-28-23
Clarke		313	Estimated over-runs				23,500.00	Approved	
Clay		56	G. W. Schierholz	Gravel material	3,700 cu. yds.	.20	740.00	Approved	3-24-23
Clay		56	W. T. Spurlock	Gravel material	7,800 cu. yds.	.20	1,560.00	Approved	3-24-23
Clay		56	Fisk and Ewing	Gravel 1 mi.	11,330 cu. yds.	.38			
				Gravel 1/2 mi.	51,500 cu. yds.	.085	8,682.90	Approved	3-24-23
Clay		56	Estimated over-runs				2,253.29	Approved	
Clay		56	Henry Noel						
			Subway and Twp. Road intersection	Excavation	8,382 cu. yds.	.50			
				Excavation	3,500 cu. yds.	.30			
Clay		256	Scothorn and Hartzell	Excavation	41,205 cu. yds.	.365	5,241.00	Approved	8-14-23
				F. E. excavation	50 cu. yds.	.365	15,058.08	Approved	8-14-23
Clay		256	J. G. Johnson	Excavation	3,088 cu. yds.	.27	832.76	Approved	7-23-23
Clay		256	Carl Carlson	6" tile drain	70,920 ft.	.1106			
				8" tile drain	1,060 ft.	.1503			
				10" tile drain	1,200 ft.	.2302			
				Intakes	21	17.00	8,636.31	Approved	7-21-23
Clay		259	J. C. McCarty	Excavation	48,383 cu. yds.	.32			
				Excavation	2,000 cu. yds.	.32			
				Channel excavation	9,000 cu. yds.	.38			
				Overhaul	4,100 cu. yds.	.02	19,656.56	Approved	8-14-23
Clay		259-B	Glep and Claussen	Excavation	4,126 cu. yds.	.28			
				F. E. excavation	182 cu. yds.	.28			
				Overhaul	2,700 cu. yds.	.02	1,260.24	Approved	8-14-23

Clay		250	Floyd Miller	6" tile drain	66,300 ft.	.114			
				8" tile drain	3,700 ft.	.162			
				12" tile drain	3,490 ft.	.295			
				Intakes	14	16.50			
				Intakes	17	14.50	9,664.65	Approved	8-14-23
Clayton		74	C. E. Maggert	Gravel material	48,000 cu. yds.	.09	4,320.00	Approved	2-8-23
Clayton		74	E. Bergemeyer	Guard rail	504 ft.	.47			
				Guard rail	10,937 ft.	.4675	5,349.93	Approved	2-26-23
Clayton		346	C. McDonald	Excavation	4,990 cu. yds.	.265			
				F. E. excavation	183 ft.	.50	1,413.85	Approved	8-11-23
Clinton		147	Louis Schnede	Type C gd. rail	1,424 ft.	.44			
				Type B gd. rail	832 ft.	.60			
				Type B gd. rail	11,996 ft.	.45	6,523.96	Approved	8-29-23
Clinton		186-A	Wright Const. Co.	Excavation	3,815 cu. yds.	.63			
				Conc. pavement	29,425 cu. yds.	2.66	80,673.95	Approved	4-3-23
Clinton		186	Layton Const. Co.	Excavation	11,556 cu. yds.	.40			
				Conc. pavement	16,967 cu. yds.	2.70	59,433.39	Approved	4-3-23
Clinton		189	Layton Const. Co.	Excavation	20,579 cu. yds.	.35			
				Excavation	310 cu. yds.	.50			
				Conc. pavement	29,480 cu. yds.	2.76			
				Intakes	8	20.00			
				15" metal culv.	224 ft.	2.00			
				18" metal culv.	288 ft.	2.40			
				Type C gd. rail	192 ft.	.25			
				Type A gd. rail	192 ft.	.25			
				Type A gd. rail	3,746 ft.	.22			
				6" tile drain	9,010 ft.	.16			
				10" tile drain	3,150 ft.	.36	93,514.22	Approved	4-3-23
Clinton		271	McAndrew & Hannahs	Excavation	44,488 cu. yds.	.30	13,346.40	Approved	6-16-23
Clinton		352-A	Littig Const. Co.	Excavation	110,768 cu. yds.	.27			
				F. E. excav.	100 cu. yds.	.40			
				15" pipe labor	280 ft.	.35			
				18" pipe labor	72 ft.	.35			
				24" pipe labor	160 ft.	.40			
				Overhaul	79,000 cu. yds.	.02	31,732.56	Approved	9-8-23
Clinton		352-B	Jenner Bros.	Excavation	55,259 cu. yds.	.30			
				Loose rock excav.	2,817 cu. yds.	.50			
				Solid rock excav.	5,615 cu. yds.	1.75			
				F. E. excav.	350 cu. yds.	.33			
				15" pipe labor	30 ft.	.40			
				18" pipe labor	52 ft.	.40			
				24" pipe labor	32 ft.	.40			
				Overhaul	47,100 cu. yds.	.02	28,918.55	Approved	9-8-23
Clinton		352	T. H. Dosland	6" tile drain	11,490 ft.	.1275			
				12" tile drain	350 ft.	.30			
				Intakes	4	18.00	1,641.98	Approved	9-8-23
Clinton		186-A	A. Olson Const. Co.	Conc. pavement	30.88 cu. yds.	16.60			
				Reinf. steel	2,000 lbs.	.05	594.08	Approved	11-23-23

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## SCHEDULE NO. 12—Continued

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County	Project Number		Contractor	Item	Estimated Quantities	Unit Price	Total Amount Contract	Action by Comm.	Date
	Federal	Primary							
Clinton		272	L. O. Kimball	Excavation	24,612 cu. yds.	.27			
				Loose rock		.75			
				Solid rock		1.25	6,645.24	Approved.	11-3-23
Crawford		8	Woodbridge & Adams	Type C gd. rail	32 ft.	.36			
				Type A gd. rail	112 ft.	.35			
				Type A gd. rail	4,956 ft.	.217	1,126.17	Approved.	10-29-23
Crawford		288	A. L. Cook	Excavation	45,641 cu. yds.	.30			
				F. E. excav.	200 cu. yds.	.30	13,776.30	Approved.	9-18-23
Crawford		288	H. B. Linnan	Gravel 1 mi.	11,589 cu. yds.	.435			
				Gravel 1/2 mi.	60,000 cu. yds.	.109			
Crawford		289	E. J. Wilson	Stripping	2,100 cu. yds.	.24	12,259.05	Approved.	10-10-23
				Excavation	98,488 cu. yds.	.235			
				F. E. excav.	95 cu. yds.	.50			
				Channel excav.	15,100 cu. yds.	.35			
Crawford		289-A	Henry Reimers	Overhaul		.02	30,757.18	Approved.	8-30-23
				6" tile drain	1,300 ft.	.18			
				Intakes	2	20.00			
Crawford		289-A	F. H. Christensen	6" tile drain	1,350 ft.	.135	456.25	Approved.	9-3-23
				Type C gd. rail	432 ft.	.48			
				Type A gd. rail	616 ft.	.36			
				Type A gd. rail	19,109 ft.	.22	4,633.10	Approved.	9-15-23
Dallas		196-A	E. V. Martin	Excavation	49,000 cu. yds.	.2295	11,245.50	Approved.	3-19-23
Dallas		196	Capper Engr. Co.	6" tile drain	6,815 ft.	.125			
				6" sewer pipe	2,360 ft.	.26			
Davis	153		Geo. Cronkhite	Intakes	4		1,565.48	Approved.	3-12-23
				Type A guard rail	11,544 ft.	.20			
				Type A guard rail	1,040 ft.	.30			
				Type C guard rail	960 ft.	.40			
Davis	158		Shirley and Caldwell	Type A baffles	82	9.00	3,742.80	Approved.	9-29-23
				Excavation	166,456 cu. yds.	.274			
Davis	158		Geo. Cronkhite	Overhaul	81,400 cu. yds.	.02	47,236.94	Approved.	5-10-23
				Type C guard rail	720 ft.	.40			
				Type A guard rail	760 ft.	.30			
				Type A guard rail	12,790 ft.	.20			
Davis	158		Estimated over-runs	Baffles	197	8.90	4,827.30	Approved.	5-26-23
Decatur	122		C. C. Barnes Co.	Excavation	21,196 cu. yds.	.298	17,519.00	Approved.	
Decatur		318	C. C. Barnes Co.	Excavation	35,141 cu. yds.	.298	6,316.41	Approved.	6-18-23
				Excavation	1,275 cu. yds.	.50			
				Overhaul	38,300 cu. yds.	.02	11,875.52	Approved.	6-18-23

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Decatur		318	W. A. & E. W. Dodge	6" tile drain	925 ft.	.19	175.75	Approved.	6-18-23
Decatur		318	Standard Bridge Co.	Guard rail matl.		42.00 M.			
				Posts	800	.43	1,955.71	Approved.	8-25-23
Decatur		318	Standard Hdw. Co.	Woven wire	360 rods	.7125	258.00	Approved.	7-23-23
Decatur		318	Iowa Pure Iron Co.	15" corr. pipe	200 ft.	1.03			
				18" corr. pipe	256 ft.	1.41	566.96	Approved.	6-18-23
Delaware	103		Alfred Edwards	Type C guard rail	640 ft.	.425			
				Type B guard rail	1,048 ft.	.53			
				Type B guard rail	20,972 ft.	.443			
				Type C guard rail	64 ft.	.55			
				Type B guard rail	64 ft.	.65			
				Type B guard rail	1,080 ft.	.55	10,788.83	Approved.	10-23-23
Delaware		236	S. J. Groves & Son	Excavation	105,367 cu. yds.	.32			
				Solid rock	9,281 cu. yds.	1.85			
				F. E. excavation	5,900 cu. yds.	.32			
				Channel change	6,165 cu. yds.	.35			
				Loose rock	1,029 cu. yds.	1.00			
				12" culverts	272 ft.	.30			
				15" culverts	320 ft.	.35			
				18" culverts	352 ft.	.40			
				24" culverts	320 ft.	.45	56,440.44	Approved.	6-4-23
Delaware		236	Alfred Edwards	6" tile drain	34,870 ft.	.118	4,114.66	Approved.	5-12-23
Delaware		236	Alfred Edwards	Type C guard rail	32 ft.	.53			
				Type A guard rail	32 ft.	.40			
				Type A guard rail	536 ft.	.30			
				Type C guard rail	624 ft.	.42			
				Type A guard rail	1,008 ft.	.315			
				Type A guard rail	18,794 ft.	.198	4,491.37	Approved.	10-23-23
Delaware		236	H. J. Murphy	Type C guard rail	672 ft.	.42			
				Type A guard rail	952 ft.	.32			
				Type A guard rail	17,324 ft.	.199			
				Type C guard rail	144 ft.	.53			
				Type A guard rail	192 ft.	.42			
				Type A guard rail	2,974 ft.	.31	5,113.26	Approved.	10-23-23
Delaware		338	Barnd & Sheppard	Excavation	7,345 cu. yds.	.45	3,305.25	Approved.	5-15-23
Delaware		338	A. J. Fleckenstein	Gravel 1 mi.	1,674 cu. yds.	.50			
				Gravel 1/2 mi.	800 cu. yds.	.12	933.00	Approved.	9-8-23
Delaware		338	Alfred Edwards	6" tile drain	2,600 ft.	.12	312.00	Approved.	5-12-23
Des Moines		273	Chas. Weitz Sons	Excavation	4,415 cu. yds.	.97			
				Pavement, cone.	14,009 cu. yds.	2.78	43,227.57	Approved.	2-8-23
Des Moines		273	Frank Bruggemeyer	12" drain	500 ft.	.33			
				8" drain	1,750 ft.	.20			
				6" drain	6,670 ft.	.16			
				Intakes	8	25.00	1,782.20	Approved.	4-6-23
Dubuque	17		Alfred Nelson	Baffle walls	363	4.00	1,452.00	Approved.	12-27-23
Dubuque	17-B		S. J. Groves & Sons	Type C guard rail	64 ft.	.44			
				Type C guard rail	64 ft.	.48			
				Type B guard rail	76	.64			
				Type B guard rail	76	.68			

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County	Project Number		Contractor	Item	Estimated Quantities	Unit Price	Total Amount Contract	Action by Comm.	Date
	Federal	Primary							
Dubuque	148		S. J. Groves & Sons	Type B guard rail.....	2,327 ft.	.54	2,766.02	Approved.	6-25-23
				Type B guard rail.....	2,328 ft.	.58			
				Earth excav.....	164,375 cu. yds.	.29			
				Solid rock.....	9,673 cu. yds.	1.40			
				Loose rock.....	16,756 cu. yds.	.75			
Dubuque	148		Alfred Nelson	Solid rock.....	3,422 cu. yds.	1.50	100,552.77	Approved.	12-11-22
				Loose rock.....	12,063 cu. yds.	.74			
				Earth excav.....	45,125 cu. yds.	.28			
				6" tile drain.....	59,060 ft.	.133			
				6" tile drain.....	23,043 ft.	.138			
				8" tile drain.....	4,025 ft.	.186			
				8" tile drain.....	1,495 ft.	.196			
				10" tile drain.....	1,060 ft.	.292			
				Intakes.....	4	28.00			
				Intakes.....	8	20.00			
Dubuque	148		Alfred Nelson	Type C guard rail.....	104 ft.	.47	12,665.54	Approved.	1- 9-23
				Type A guard rail.....	710 ft.	.29			
				Type A guard rail.....	8,630 ft.	.25			
				Type C guard rail.....	832 ft.	.46			
				Type A guard rail.....	750 ft.	.31			
Dubuque	148		Alfred Nelson	Type B guard rail.....	96 ft.	.57	3,027.50	Approved.	9-15-23
				Type B guard rail.....	1,876 ft.	.52			
				Type B guard rail.....	88 ft.	.67			
				Type B guard rail.....	3,104 ft.	.62			
				Type C guard rail.....	24 ft.	.57			
Fayette	59		Maynard Extension	Excavation.....	9,188 cu. yds.		3,027.36	Approved.	9-15-23
				Gravel.....	1,154 cu. yds.				
Fayette	50		West Union Extension	Excavation.....	3,312 cu. yds.				
				Gravel.....	749 cu. yds.				
Fayette	59		Fayette Extension	Excavation.....	7,533 cu. yds.				
Fayette	59		Yegge and Johnson	Gravel.....	1,342 cu. yds.		423.50	Approved.	9-18-23
				Gravel 1 mi.....	700 cu. yds.	.55			
				Gravel 1/2 mi.....	350 cu. yds.	.11			
Fayette	50		L. O. Kimball	Gravel 1 mi.....	3,582 cu. yds.	.38			
				Gravel 1/2 mi.....	28,000 cu. yds.	.069			
Fayette	59		Yegge and Johnson	Gravel 1 mi.....	750 cu. yds.	.60	4,192.56	Approved.	9-23-23
				Gravel 1/2 mi.....	7,195 cu. yds.	.12			
Fayette	50		Grant Lauer	Type C guard rail.....	4,000 ft.	.42			
				Type C guard rail.....	176 ft.	.59			

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Fayette	143-A	Yegge and Johnson	Type C guard rail.....	32 ft.	.68	4,238.80	Approved.	9-24-23
			Type B guard rail.....	320 ft.	.59			
			Type B guard rail.....	3,272 ft.	.47			
			Type B guard rail.....	64 ft.	.68			
			Type B guard rail.....	1,184 ft.	.56			
Fayette	144	O. McDonald	Gravel 1 mi.....	2,323 cu. yds.	.25	3,837.00	Approved.	10- 1-23
			Gravel 1/2 mi.....	31,000 cu. yds.	.165			
Floyd	268	L. O. Kimball	Earth excav.....	51,316 cu. yds.	.265			
Floyd	268	H. Williams	Earth excav.....	83,169 cu. yds.	.24			
			6" tile drain.....	40,015 ft.	.109			
			8" tile drain.....	1,200 ft.	.159	7,241.87	Approved.	3-19-23
			10" tile drain.....	2,950 ft.	.249			
			12" tile drain.....	4,640 ft.	.292			
			Intakes.....	24	25.00			
			Intakes.....	24	25.00			
Floyd	268	Estimated over-runs	6" tile drain.....	39,759 ft.	.121	8,615.23	Approved.	3-19-23
Floyd	269	W. H. O'Brien	12" tile drain.....	2,790 ft.	.325			
			Intakes.....	18	25.00			
			Intakes.....	18	25.00			
			Intakes.....	18	25.00			
Floyd	269	Estimated over-runs	6" tile drain.....	39,759 ft.	.121	1,716.76	Approved.	3-19-23
			12" tile drain.....	2,790 ft.	.325			
			Intakes.....	18	25.00			
			Intakes.....	18	25.00			
			Intakes.....	18	25.00			
Franklin	171-A	Nelson and Melohn	Gravel 1 mi.....	11,787 cu. yds.	.37	19,482.69	Approved.	6-23-23
			Gravel 1/2 mi.....	177,900 cu. yds.	.085			
Franklin	171	H. L. Bone and Son	Gravel 1 mi.....	3,482 cu. yds.	.65			
			Gravel 1 mi.....	3,482 cu. yds.	.65			
			Gravel crushed.....	6,964 cu. yds.	.30			
Franklin	171	E. Q. Davis	Gravel 1/2 mi.....	17,160 cu. yds.	.12	8,675.00	Approved.	6-25-23
			Pit gravel.....	7,000 cu. yds.	.20			
Franklin	171	W. W. Burman	Pit gravel.....	5,000 cu. yds.	.24			
Franklin	171	C. N. Hildebrand	Type C guard rail.....	352 ft.	.30			
			Type A guard rail.....	496 ft.	.33			
Franklin	354	J. E. Kughn & Sons	Type A guard rail.....	11,828 ft.	.260	2,773.01	Approved.	6-25-23
			Earth excav.....	5,045 cu. yds.	.38			
			Blade grading.....	0.832 mi.	200.00			
Franklin	354	E. J. Hoversten	Gravel 1 mi.....	1,741 cu. yds.	.39			
			Gravel 1/2 mi.....	5,500 cu. yds.	.12			
Greene	193	Peterson, Shirley and Gunther	Road excav.....	154,107 cu. yds.	.245	1,338.99	Approved.	10-29-23
			F. E. excav.....	500 cu. yds.	.75			
			Channel change.....	3,500 cu. yds.	.55			
Greene	193	W. W. Codner	6" tile drain.....	150,624 ft.	.1215			
			8" tile drain.....	5,808 ft.	.168			
			6" sewer pipe.....	3,200 ft.	.30	40,056.21	Approved.	6- 1-23
			Intakes.....	102	17.00			
			Intakes.....	49	15.50			
Greene	193	W. E. Schoppe	Type C guard rail.....	288 ft.	.55			
			Type A guard rail.....	344 ft.	.35			
			Type A guard rail.....	9,248 ft.	.229	2,440.00	Approved.	6-11-23
			Baffles.....	3	14.50			
			Excavation.....	2,905 cu. yds.	.50			
Greene	347	Empire Const. Co.	Cone, pavement.....	21,208 cu. yds.	2.45			

DEPARTMENT OF ROAD ADMINISTRATION

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SCHEDULE NO. 12—Continued

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IOWA STATE HIGHWAY COMMISSION

County	Project Number		Contractor	Item	Estimated Quantities	Unit Price	Total Amount Contract	Action by Comm.	Date
	Federal	Primary							
Greene		348	Empire Const. Co.	Excavation	4,978 cu. yds.	.50			
Greene		348	John Fries	Conc. pavement	16,123.6 cu. yds.	2.34	40,218.22	Approved.	7-31-23
				6" tile drain	6,948 ft.	.13			
				8" tile drain	1,920 ft.	.13			
Guthrie	179-B		Peterson, Shirley and Gunther	Intakes	12	17.00	1,356.84	Approved.	7-31-23
Guthrie	179-B		Henningsen Const. So.	Excavation	79,746 cu. yds.	.2275	18,142.22	Approved.	12-9-22
				Guard rail	512 ft.	.32			
Guthrie	179-B		Jensen Construction Co.	Guard rail	8,343 ft.	.22	1,969.30	Approved.	12-2-22
Hamilton		217	M. Sorenson	Type A baffles	174	9.00	1,566.00	Approved.	12-2-23
				6" tile drain	5,300 ft.	.127			
				6" tile drain	24,950 ft.	.127			
				Intakes	17	15.00			
Hamilton		218	J. A. Dunkel	Earth excav.	61,710 cu. yds.	.249	4,084.05	Approved.	4-18-23
Hamilton		218	Archie Campbell	Overhaul	43,734 cu. yds.	.02	16,240.47	Approved.	4-18-23
				6" tile drain	28,230 ft.	.118			
				Intakes Type A	14	17.00			
Hamilton		344	A. R. Eno	Intakes Type B	3	16.95	3,619.99	Approved.	6-9-23
				Gravel 1 mi.	5,790 cu. yds.	.35			
				Gravel 1/2 mi.	17,900 cu. yds.	.08			
				Gravel 1/2 mi.	58,000 cu. yds.	.0875			
				Stripping pit	500 cu. yds.	.30	8,683.50	Approved.	6-23-23
Hancock	94		Connor and Lee	Type C guard rail	4,284 ft.	.424	1,816.42	Approved.	8-11-23
Hancock	139		Andrew Nelson	6" tile drain	9,500 ft.	.111			
				10" tile drain	1,370 ft.	.246			
				Intakes	3	15.00			
Hancock	139		Jorgenson and Jones	Type C guard rail	8,402 ft.	.41	1,436.52	Approved.	5-3-23
Hancock	195		A. L. Cook	Excavation	142,397 cu. yds.	.23	3,444.82	Approved.	8-11-23
				Overhaul	73,518 cu. yds.	.02			
Hancock	195		Andrew Nelson	6" tile drain	50,000 ft.	.104	34,221.67	Approved.	8-6-23
				8" tile drain	18,325 ft.	.14			
				10" tile drain	2,000 ft.	.22			
				12" tile drain	200 ft.	.27			
				Intakes	61	15.00			
Hancock	195		Estimated over-runs	Intakes	21	12.00	10,050.50	Approved.	8-6-23
Hardin		88	W. W. McCollough	Earth excav.	4,993 cu. yds.	.28	12,461.33	Approved.	
				Overhaul		.02			
Hardin		88	Snater Const. Co.	Gravel 1 mi.	780 cu. yds.	.43	1,682.04	Approved.	8-3-23
				Gravel 1/2 mi.	1,500 cu. yds.	.10	485.40	Approved.	9-3-23

DEPARTMENT OF ROAD ADMINISTRATION

Hardin		88	Christensen Const. Co.	6" tile drain	2,000 ft.	.141	282.00	Approved.	8-3-23
Henry	151		W. W. Cummings	Earth excav.	160,111 cu. yds.	.27			
				Earth excav.	565 cu. yds.	.30			
				Earth excav.	1,000 cu. yds.	.30			
				Overhaul	87,150 cu. yds.	.02			
				15" and 18" culvert labor	500 ft.	.35			
Henry	151		Geo. Cronkhite	24" culvert labor	144 ft.	.50	45,710.47	Approved.	9-15-23
				Type C guard rail	736 ft.	.40			
				Type A guard rail	784 ft.	.30			
				Type A guard rail	11,802 ft.	.19			
				Baffles	203	8.25	4,446.73	Approved.	9-15-23
Howard		103	J. J. Wheeler	Gravel 1 mi.	16,246 cu. yds.	.35			
				Gravel 1/2 mi.	65,545 cu. yds.	.085			
				Stripping pit		.30	11,257.42	Approved.	4-12-23
Howard		103	John R. Webb	Gravel at pit	4,700 cu. yds.	.125	587.50	Approved.	9-24-23
Howard			Estimated over-runs				5,196.00	Approved.	
Howard	190		Knutsen & Christensen	6" tile drain	31,750 ft.	.116			
				8" tile drain	12,445 ft.	.172			
				10" tile drain	2,520 ft.	.248			
				6" tile drain	30,853 ft.	.114			
				8" tile drain	9,840 ft.	.17			
				10" tile drain	3,900 ft.	.239			
				12" tile drain	700 ft.	.29			
				Intakes	2	20.00			
Ida		274	A. O. Shelsness	Intakes	15	16.00	13,053.64	Approved.	7-2-23
				Gravel 1 mi.	13,492 cu. yds.	.39			
				Gravel 1/2 mi.	193,000 cu. yds.	.065			
				Stripping pit	7,500 cu. yds.	.25	25,471.88	Approved.	5-19-23
Jasper		180	C. A. Wilson	Gravel 1 mi.	9,034 cu. yds.	.49			
				Gravel 1/2 mi.	17,940 cu. yds.	.10	6,220.06	Approved.	3-19-23
Jefferson		120	Al. Horsey	Type B guard rail	7,640 ft.	.51			
				Type B guard rail	560 ft.	.70			
				Type C guard rail	496 ft.	.47	4,750.72	Approved.	8-3-23
				Install culvert		.35			
Jefferson	220		L. C. Wood & Co.	Earth excav.	105,796 cu. yds.	.24	25,391.04	Approved.	1-19-23
Johnson	207-A		E. W. Kolterman	Earth excav.	61,946 cu. yds.	.237			
Johnson	207		E. W. Kolterman	Earth excav.	99,818 cu. yds.	.224			
				Earth excav.	14,964 cu. yds.	.23			
				F. E. excav.	3,815 cu. yds.	.30			
				Channel excav.	6,250 cu. yds.	.30			
				Overhaul	183,779 cu. yds.	.02			
				15" pipe labor	880 ft.	.45			
				18" pipe labor	272 ft.	.55			
				24" pipe labor	64 ft.	.65			
				30" pipe labor	80 ft.	.75			
Johnson	207-A		Geo. B. Shaler	Riprap placed	1,640 cu. yds.	1.75	47,673.50	Approved.	7-9-23
							2,870.00	Approved.	10-23-23

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## IOWA STATE HIGHWAY COMMISSION

SCHEDULE NO. 12—Continued

County	Project Number		Contractor	Item	Estimated Quantities	Unit Price	Total Amount Contract	Action by Comm.	Date
	Federal	Primary							
Johnson		395 A	H. W. Fairchild	Guard rail	222 ft.	.30			
				Excavation	4,254 cu. yds.	1.32			
				Guard rail	254 ft.	.30			
				Guard rail	944 ft.	.06			
				Guard rail	64 ft.	.30			
				Guard rail	64 ft.	.30			
Johnson		208	Moore-Young Const. Co.	Excavation	1,040 cu. yds.	.70	428.80	Approved.	10-25-23
				Core, pavement	1,771.8 sq. yds.	3.75			
Johnson		210	O'Hanlon and Reilly	Excavation	50,500 cu. yds.	.228	7,600.72	Approved.	1-26-23
				Channel excav.	100 cu. yds.	.25			
				Overhaul	66,000 cu. yds.	.02			
				12" culvert labor	418 ft.	.40			
				12" culvert labor	418 ft.	.40			
				Earth excav.	104,000 cu. yds.	.34			
Jones	168		Foley Brothers	Loose rock	122 cu. yds.	1.50			
				Gravel	30,320 cu. yds.	.139	25,973.14	Approved.	12-11-22
				12" drain	211 ft.	.35			
				12" drain	183 ft.	.20			
Jones	162		C. S. Hildebrand	Guard rail	512 ft.	.22			
				Guard rail	244	.24			
				Channel excav.	18,000 cu. yds.	.12			
Jones	162 B		Foley Brothers	Channel excav.	6,700 cu. yds.	.48			
				12" culvert labor	300 ft.	.30			
				12" culvert labor	300 ft.	.30			
				12" culvert labor	300 ft.	.30			
				Overhaul	120,100 cu. yds.	.02			
				6" drain	20,000 ft.	.122			
				12" drain	1,000 ft.	.08			
				12" drain	1,000 ft.	.08			
Jones	165		Jensen & Christensen	Intakes	1,200 ft.	.15			
				Intakes	602 ft.	.47			
				Type C guard rail	1,200 ft.	.47			
				Type A guard rail	15,874 ft.	.21			
Jones	165		Connor and Lee	Intakes	1,200 ft.	.47			
				Intakes	602 ft.	.47			
				Type C guard rail	1,200 ft.	.47			
				Type A guard rail	15,874 ft.	.21			

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SCHEDULE NO. 12—Continued

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IOWA STATE HIGHWAY COMMISSION

County	Project Number		Contractor	Item	Estimated Quantities	Unit Price	Total Amount Contract	Action by Comm.	Date
	Federal	Primary							
Louisa		75	Littig Const. Co.	Excavation	88,287 cu. yds.	.294			
				F. E. excav.	1,600 cu. yds.	.45			
				Culvert labor	528 ft.	.35			
Louisa		75	Estimated over-runs	Overhaul	71,800 cu. yds.	.02	28,297.18	Approved.	8-29-23
Louisa		179	Longerbone Brothers	Excavation	78,241 cu. yds.	.284	8,557.68	Approved.	
				Excavation	1,310 cu. yds.	.45			
				Overhaul	549,200 cu. yds.	.02			
				12" culverts	528 ft.	Cost +15%			
				15" culverts	32 ft.	Cost +15%			
Louisa		179	M. F. Wallace	6" tile drain	2,500 ft.	.1275	33,793.94	Approved.	10-23-23
				8" tile drain	2,800 ft.	.23			
				Tile intakes	4	22.50	1,052.50	Approved.	10-23-23
Louisa		179	George Cronkhite	Baffle walls	39	9.50	370.50	Approved.	10-10-23
Louisa		179	C. N. Hildebrand	Type C guard rail	224 ft.	.47			
				Type A guard rail	224 ft.	.34			
				Type A guard rail	3,584 ft.	.239			
Louisa		179	Thompson & McDaniels	Excavation	78,241 cu. yds.	.279	1,068.02	Approved.	10-10-23
				Excavation	1,310 cu. yds.	.60			
				12" culverts	528 ft.	.30			
				15" culverts	32 ft.	.32			
				24" culverts	32 ft.	.40			
				Overhaul	549,200 cu. yds.	.02			
Lyon		229	C. W. McNamara	Excavation	203,287 cu. yds.	.243	33,780.64	Disappr'd.	
				Channel change	8,010 cu. yds.	.35			
				Excavation	18,807 cu. yds.	.40			
				15" culverts labor	929 ft.	.25			
				18" culvert labor	184 ft.	.30			
				24" culvert labor	288 ft.	.35			
				Overhaul		.02			
				6" tile drain	6,500 ft.	.128	66,791.08	Approved.	6-29-23
				12" tile drain	3,000 ft.	.22			
				Intakes	4	20.00			
Lyon		292-B	A. F. Schimmer	Gravel 1 mi.	7,529 cu. yds.	.42	1,572.00	Approved.	6-16-23
				Gravel 1/2 mi.	2,000 cu. yds.	.11	3,382.18	Approved.	9-3-23
Lyon		292	H. B. & Ida L. Pierce	Pit gravel	3,744 cu. yds.	.15			
Lyon		307	Sheehan-Bjerknes Co.	Gravel 1 mi.	3,120 cu. yds.	.34	561.60	Approved.	9-3-23
				Gravel 1/2 mi.	15,600 cu. yds.	.005			

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				Excavation	1,100 cu. yds.	.20			
				Gravel 1 mi.	9,839 cu. yds.	.31			
				Gravel 1/2 mi.	93,400 cu. yds.	.005			
				Excavation	4,000 cu. yds.	.19			
				Screening	9,838 cu. yds.	.06			
				Gravel 1 mi.	6,589 cu. yds.	.33			
				Gravel 1/2 mi.	76,600 cu. yds.	.00			
				Screening	600 cu. yds.	.20	25,224.23	Approved.	12-16-22
Mahaska		70	G. L. Roberts Const. Co.	Excavation	59,438 cu. yds.	.247			
				Loose rock		1.50			
				Solid rock		3.00	14,686.13	Approved.	3-12-23
Mahaska		70	G. L. Roberts Const. Co.	Excavation	25,815 cu. yds.	.247			
				Channel change	27,700 cu. yds.	.37	16,625.31	Approved.	6-9-23
Mahaska		70	Hait and Russell	6" tile drain	6,005 ft.	.1425			
				12" tile drain	200 ft.	.365			
				Intakes	2	22.50	973.72	Approved.	3-24-23
Mahaska		70	Chadima and Lee	Guard rail	352 ft.	.283			
				Guard rail	4,528 ft.	.194			
				Guard rail	624 ft.	.519			
				Guard rail	10,508 ft.	.435			
				Guard rail	3,584 ft.	.434			
				Baffle walls	209 ft.	8.85	9,277.98		
Mahaska		146	Chadima and Lee	Guard rail	384 ft.	.519			
				Guard rail	5,824 ft.	.435			
				Guard rail	920 ft.	.283			
				Guard rail	20,824 ft.	.194			
				Baffles	348 ft.	8.85	10,112.76	Approved.	2-27-23
Marion		315	Thos. Mickle	Earth excav.	111,614 cu. yds.	.292	32,591.29	Approved.	8-27-23
Marion		315	Paulsen and James	6" tile drain	9,430 ft.	.132			
				12" tile drain	1,300 ft.	.32			
				Intakes	10	20.00	1,800.76	Approved.	8-27-23
Marion		315	H. A. Betzer	Type C guard rail	320 ft.	.54			
				Type B guard rail	640 ft.	.58			
				Type A guard rail	1,810 ft.	.25			
				End panels	40	1.75			
				Type A baffles	30	11.50	1,411.50	Approved.	8-27-23
Marshall		240	Longerbone Brothers	Earth excav.	117,610 cu. yds.	.26			
				Earth excav.	54,099 cu. yds.	.26	44,644.34	Approved.	3-14-23
Marshall		240-B	Henry Teget	6" tile drain	6,630 ft.	.134			
				8" tile drain	2,340 ft.	.18			
				Type A intakes	5	16.00			
				Type B intakes	3	15.00	1,434.62	Approved.	2-7-23
Marshall		240-A	Henry Teget	6" tile drain	1,450 ft.	.14			
				8" tile drain	250 ft.	.20			
				Intakes	7	17.50	375.50	Approved.	3-8-23
Mitchell		45	Lumber and Grain Co.	Posts	324	.42			
				2x6 planks	2.5 M.	43.00			
				2x8 planks	6.696 M.	43.00	539.22	Approved.	6-9-23



SCHEDULE NO. 12—Continued

County	Project Number Federal Primary	Contractor	Item	Estimated Quantities	Unit Price	Total Amount Contract	Action by Comm.	Date
Mitchell	138	Harrison Const. Co.	Gravel 1 mi.	9,413 cu. yds.	.20			
			Gravel 1/2 mi.	108,351 cu. yds.	.10			
			Gravel crushed	9,413 cu. yds.	.35			
			Gravel 1 mi.	11,160 cu. yds.	.15			
			Gravel 1/2 mi.	32,700 cu. yds.	.15			
			Posts	757	.42			
Mitchell	138	Lumber and Grain Co.	2x6 rails	757 M.	43.00	34,137.65	Approved.	6-4-23
			2x6 rails	90,307 M.	43.00			
Monona	38	L. E. Hunt & Son	Earth excav.	132,816 cu. yds.	.198	1,500.76	Approved.	6-9-23
Monona	38-B	Ed. Quackenbush	Cutting banks	15,000 cu. yds.	.40	30,257.50	Approved.	1-8-23
Monona	38	Phelan-Shirley Co.	Excavation	34,620 cu. yds.	.20	6,920.00	Approved.	4-27-23
Monona	38	C. Smith	Backfill labor	17	3.50	60.00	Approved.	6-11-23
		J. J. Riddle	Type C guard rail	522 ft.	.16			
			Type A guard rail	688 ft.	.32			
			Type C guard rail	15,040 ft.	.225			
			Type C guard rail	160 ft.	.47			
			Type A guard rail	176 ft.	.32			
			Type A guard rail	3,164 ft.	.23			
			Earth excav.	80,825 cu. yds.	.225			
			Excavation	137,634 cu. yds.	.18			
Monona	184	Phelan-Shirley Co.	10' tile drain	1	.50			
Monona	184	Jas. O'Connor	Intakes	43,660 cu. yds.	.26	4,774.28	Approved.	9-27-23
			Earth excav.	384 ft.	.60	18,185.63	Approved.	2-8-23
Monroe	78	C. O. Mitchell	Type B guard rail	1	.26			
Monroe	78	G. L. Roberts	Type A guard rail	384 ft.	.26	96,511.12	Approved.	5-24-23
			End panels	16	.75	11,351.60	Approved.	6-4-23
Monroe	294	McAndrew & Hannahs	Earth excav.	49,838 cu. yds.	.264	771.34	Approved.	6-16-23
			Overhaul	200 cu. yds.	.45			
Monroe	294	Elarton & Elliott	Earth excav.	14,290 cu. yds.	.02	13,531.23	Approved.	6-4-23
			Overhaul	20,663 cu. yds.	.262			
Monroe	294	Hait and Russell	Earth excav.	100 cu. yds.	.35			
			Overhaul	10,290 cu. yds.	.02	5,503.37	Approved.	6-4-23
			6" tile drain	3,725 ft.	.138			
			8" tile drain	1,785 ft.	.186			
			10" tile drain	1,660 ft.	.297			
			12" tile drain	50 ft.	.506			
			Intakes	10	21.00			
			Backfill	32	14.00			
Monroe	294	G. L. Roberts	Type C guard rail	384 ft.	14.55	1,568.83	Approved.	6-16-23

Monroe	294	Estimated over-runs	Type A guard rail	384 ft.	.35			
Montgomery	16	Green Bay Lumber Co.	Type A guard rail	4,252 ft.	.35	1,428.33	Approved.	6-16-23
Muscataine	40	Gage Brothers	Guard rail	6,284 ft.	.65	13,000.00	Approved.	
Muscataine	87	Gage Brothers	Type A guard rail	12,780 ft.	.25	1,571.00	Approved.	4-7-23
Muscataine	87	Gage Brothers	Type B baffles	251	6.00	4,602.00	Approved.	4-7-23
Osceola	355	Elmington Brothers	Paint guard rail	12,990 ft.	.0388	500.92	Approved.	9-15-23
			Gravel 1 mi.	16,977 cu. yds.	.38			
			Gravel screen	228,000 cu. yds.	.08			
			Grave strip	16,977 cu. yds.	.04			
Page	27	Geo. W. Condon	Earth excav.	4,800 cu. yds.	.25	26,570.34	Approved.	10-9-23
Page	178	Geo. W. Condon	Earth excav.	36,299 cu. yds.	.25	9,032.25	Approved.	7-28-23
Page	137	Geo. W. Condon	Earth excav.	240,690 cu. yds.	.18	55,733.40	Approved.	7-28-23
			Loose rock	320,194 cu. yds.	.18			
Plymouth	151	W. E. Schorpe	Solid rock	77	.70	57,634.92	Approved.	9-27-23
			Type C guard rail	608 ft.	1.25			
Plymouth	181	F. H. Christenson	Type A guard rail	784 ft.	.34	5,435.00	Approved.	11-10-23
Plymouth	30	F. H. Christenson	Type A guard rail	22,554 ft.	.219	9,032.25	Approved.	11-10-23
Plymouth	39	F. H. Christenson	Type A baffles	48	9.20	441.60	Approved.	11-10-23
			Type A baffles	295	9.20	2,670.00	Approved.	11-11-23
			Baffles	33	9.40	310.20	Approved.	11-10-23
			Type C guard rail	1,098 ft.	.48			
			Type A guard rail	1,088 ft.	.32			
			Type A guard rail	20,064 ft.	.22	5,246.08	Approved.	10-27-23
			Type A guard rail	176 ft.	.48			
			Type A guard rail	224 ft.	.32	1,196.32	Approved.	10-29-23
			Type A guard rail	4,728 ft.	.22			
			Temp. excav.	167,063 cu. yds.	.219			
			F. E. excav.	520 cu. yds.	.219			
			Channel excav.	51,372 cu. yds.	.219			
			15" pipe labor	328 ft.	.35			
			15" pipe labor	464 ft.	.35			
			24" pipe labor	112 ft.	.25			
			Overhaul	285,000 cu. yds.	.02	35,266.63	Approved.	6-23-23
			Excavation	99,554 cu. yds.	.21			
			F. E. excav.	1,049 cu. yds.	.21			
			Overhaul	130,000 cu. yds.	.02			
			Type C guard rail	1,856 ft.	.45			
			Type A guard rail	1,628 ft.	.36			
			Type A guard rail	23,319 ft.	.229	33,726.63	Approved.	7-2-23
			Baffles	498	8.85	9,150.33	Approved.	7-11-23
			Earth excav.	41,554 cu. yds.	.22	4,407.30	Approved.	6-29-23
			Channel excav.	15,290 cu. yds.	.20			
			15" pipe labor	64 ft.	.40			
			Overhaul	7,590 cu. yds.	.02			
			Exc. in LeMars	10,740 cu. yds.	.02			
			Overhaul	2,890 cu. yds.	.02	15,066.28	Approved.	10-5-23



County	Project Number		Contractor	Item	Estimated Quantities	Unit Price	Total Amount Contract	Action by Comm.	Date
	Federal	Primary							
Plymouth		350	C. J. West	Gravel 1 mi.	4,680 cu. yds.	.42			
Plymouth		360	M. J. Gilles Co.	Gravel 1/2 mi.	17,750 cu. yds.	.11	3,918.10	Approved.	10-8-23
Pocahontas		90	J. W. Clancy	Gravel material	4,680 cu. yds.	.375	1,755.00	Approval.	10-8-23
Pocahontas		90	M. J. Murphy	f. o. b. Cherokee	10,984 cu. yds.	.43	4,723.12	Approved.	8-20-23
				6" tile drain	2,400 ft.	.1315			
				8" tile drain	900 ft.	.1770			
				Intake	1	20.00	406.71	Approved.	7-28-23
Pocahontas		339	C. H. Connor	Excavation	9,902 cu. yds.	.35			
Pocahontas		339	J. W. Donnelly	Excavation	1,400 cu. yds.	.35	3,955.70	Approved.	7-3-23
				Gravel 1 mi.	12,100 cu. yds.	.38			
				Gravel 1/2 mi.	14,000 cu. yds.	.085			
				Gravel 1/2 mi.	37,000 cu. yds.	.68			
Pocahontas		339	J. W. Donnelly	Stripping pit	3,500 cu. yds.	.25	9,623.00	Approved.	7-3-23
				Gravel 1 mi.	980 cu. yds.	.38			
Pocahontas		339	Nels Kaiser	Gravel 1/2 mi.	7,800 cu. yds.	.09	1,079.80	Approved.	10-6-23
				Gravel 1 mi.	500 cu. yds.	.49			
				Gravel 1/2 mi.	500 cu. yds.	.069			
				Gravel stripping	200 cu. yds.	.25	344.50	Approved.	11-12-23
Polk	187-A		Koss Const. Co.	Earth excav.	6,923 cu. yds.	.55			
Polk	187-B		Koss Const. Co.	Conc. pavement	48,074 sq. yds.	2.48	123,031.17	Approved.	1-19-23
				Earth excav.	18,794 cu. yds.	.55			
				Conc. pavement	58,252 sq. yds.	2.48			
Polk	187		A. N. Bradley & Sons	Spec. intakes	8	50.00	155,201.66	Approved.	1-19-23
				6" tile drains	12,365 ft.	.13			
Polk	199		Koss Const. Co.	Intake	1	20.00	1,627.45	Approved.	6-11-23
				Earth excav.	23,636 cu. yds.	.50			
				F. E. excav.	585 cu. yds.	.50			
				Conc. pavement	29,506 sq. yds.	2.55			
				15" culvert labor	192 ft.	.70			
				18" culvert labor	64 ft.	1.00			
				Intakes	22	40.00			
				Intakes	2	75.00	88,581.20	Approved.	8-10-23
Polk	199		Jorgenson and Jones	6" tile drain	3,735 ft.	.148			
				24" sewer pipe	270 ft.	1.90	1,065.78	Approved.	8-14-23
Polk		244	A. M. Bradley	16" tile drain	1,133 ft.	.54			
				6" tile labor	50 ft.	.06			
Polk		349	P. E. Shugart	Intake	1	20.00	634.82	Approved.	6-1-23
				Earth excav.	10,526 cu. yds.	.24	2,526.24	Approved.	10-8-23

IOWA STATE HIGHWAY COMMISSION

Polk		349	Jorgenson and Jones	6" tile drain	1,950 ft.	.145			
				Intake	1	25.00			
Poweshiek	174		Geo. Cronkhite	Baffles	26	11.85	615.85	Approved.	9-29-23
				Type C guard rail	736 ft.	.44			
Poweshiek		217	Geo. Cronkhite	Type A guard rail	784 ft.	.35	1,507.58	Approved.	10-23-23
				Type C guard rail	4,786 ft.	.19			
				Type A guard rail	416 ft.	.44			
				Type A guard rail	464 ft.	.35			
Ringgold	123		C. C. Barnes Co.	Type A guard rail	5,011 ft.	.195	1,322.50	Approved.	10-23-23
Ringgold	141		C. C. Barnes Co.	Excavation	37,900 cu. yds.	.285	10,801.50	Approved.	12-18-22
Ringgold	141		Miller & Coverdell	Excavation	69,046 cu. yds.	.265	18,297.19	Approved.	12-18-22
				Pulling hedge	700 rods	.90			
				Pulling hedge	700 rods	.25			
Ringgold	141		Wheeler Lumber Co.	Pulling trees	100	2.00 per hr.	1,005.00	Approved.	9-3-23
				Baffles	178	9.70			
				Type A guard rail	1,248 ft.	.50			
				Type B guard rail	7,537 ft.	.24			
				Int. panels	3	.50			
Ringgold	142		B. N. Dilts & Son	End panels	52	.50	4,186.98	Approved.	7-9-23
Ringgold	142		L. R. Treichler	Excavation	111,868 cu. yds.	.265	29,645.02	Approved.	12-20-22
				6" drain	550 ft.	.25			
				8" drain	1,550 ft.	.25			
Ringgold	142		Wheeler Lumber Co.	Intakes	5	25.00	650.00	Approved.	9-15-23
				Type B guard rail	1,824 ft.	.50			
				Type A guard rail	11,292 ft.	.24 & .165			
				End panels	76	.50			
				Int. panels	7	.50			
				Type A baffles	391	9.70	7,000.00	Approved.	7-6-23
Sac	210		Barnes & Barnes	Excavation	18,152 cu. yds.	.25	4,538.00	Approved.	4-27-23
Sac	210		Nelson and Sauer	Excavation	15,273 cu. yds.	.25	3,818.25	Approved.	4-27-23
Sac	210		J. H. Nestle	Gravel 1 mi.	1,104 cu. yds.	.42			
				Gravel 1/2 mi.	6,000 cu. yds.	.066	1,039.68	Approved.	6-16-23
				Gravel 1 mi.	1,553 cu. yds.	.38			
				Gravel 1/2 mi.	1,500 cu. yds.	.10			
				Gravel 1 mi.	2,622 cu. yds.	.35			
Sac	210		Jas. Clinton	Gravel 1/2 mi.	750 cu. yds.	.075	1,714.09	Approved.	6-16-23
				Gravel 1 mi.	792 cu. yds.	.40			
Sac	210		M. O. Weaver	Gravel 1/2 mi.	5,500 cu. yds.	.09	811.80	Approved.	6-16-23
				Gravel 1 mi.	1,318 cu. yds.	.38			
Sac	210		Eaton and Leitz	Gravel 1/2 mi.	13,800 cu. yds.	.085	1,673.84	Approved.	6-16-23
				Gravel 1 mi.	492 cu. yds.	.35			
				Gravel 1/2 mi.	3,000 cu. yds.	.10	472.20	Approved.	6-25-23
Sac	210		Henry Teget	6" tile drain	1,900 ft.	.1225			
				6" tile drain	2,600 ft.	.168			
Sac	210		Estimated over-runs	6" tile drain	2,500 ft.	.1225	819.80	Approved.	4-10-23
Sac	304-B		Henry Teget	6" tile drain	11,415 ft.	.1225	6,200.19	Approved.	
				8" tile drain	500 ft.	.17			
				Intakes	4	17.50	1,553.34	Approved.	4-10-23

DEPARTMENT OF ROAD ADMINISTRATION



## SCHEDULE NO. 12—Continued

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IOWA STATE HIGHWAY COMMISSION

County	Project Number		Contractor	Item	Estimated Quantities	Unit Price	Total Amount Contract	Action by Comm.	Date
	Federal	Primary							
Sac.		304-A	M. O. Weaver	Gravel 1 mi.	7,800 cu. yds.	.40			
				Gravel ½ mi.	42,900 cu. yds.	.09			
				Gravel 1 mi.	6,210 cu. yds.	.45			
Sac.		304-B	M. O. Weaver	Gravel ½ mi.	40,600 cu. yds.	.10	13,835.50	Approved.	4-12-23
				Gravel 1 mi.	5,339 cu. yds.	.40			
				Gravel ½ mi.	33,000 cu. yds.	.08½			
				Stripping pit	3,000 cu. yds.	.25	5,000.00	Approved.	6-16-23
Sac.		304-A	N. W. Gravel Company	Gravel f. o. b. Lake View	6,210 cu. yds.	.79	4,905.90	Approved.	4-16-23
Sac.		304-B	Estimated over-runs				2,118.02	Approved.	
Sac.		304-A	L. F. Wilson	Excavation	1,400 cu. yds.	.35	490.00	Approved.	6-9-23
Sac.		304-A	Henry Teget	6" drain	6,675 ft.	.1225			
				8" drain	1,075 ft.	.17			
				Intake	1	18.00	1,018.44	Approved.	4-10-23
Sac.		304-A	Estimated over-runs				10,953.89	Approved.	
Scott.	55-C		J. H. Philbert	Gravel on road	740 cu. yds.	1.15	851.00	Approved.	9-15-23
Scott.	114-C		Central Engr. Co.	Conc. pavement	1,100 sq. yds.	3.50	3,850.00	Approved.	9-18-23
Shelby.		42	Jno. P. Nelson	Guard rail	1,904 ft.	.40			
				Guard rail	2,248 ft.	.29			
				Guard rail	37,898 ft.	.185	8,424.65	Approved.	6-23-23
Shelby.		42	F. H. Christensen	Baffles	1,078	8.20			
				Guard rail	768 ft.	.38			
				Guard rail	920 ft.	.20			
				Guard rail	16,412 ft.	.06			
				Guard rail	448 ft.	.40			
				Guard rail	512 ft.	.20			
				Guard rail	9,240 ft.	.08	11,329.96	Approved.	6-23-23
Sioux.		314	C. W. McNamara	Excavation	36,110 cu. yds.	.260			
				Channel excav.	4,000 cu. yds.	.35			
				Culvert labor	80 ft.	.30			
				Overhaul			11,174.59	Approved.	11-3-23
Sioux.		26	M. L. Flinn Paving Co.	Vibro-lithic concrete pavement	100 sq. yds.	2.32	371.20	Approved.	8-25-23
Sioux.		83	Vander Schaaf and Vander Stouwe	Earth excav.	5,325 cu. yds.	.295	1,629.87	Approved.	7-14-23
Sioux.		198-B	C. J. West	Gravel 1 mi.	21,818 cu. yds.	.35			
				Gravel ½ mi.	97,500 cu. yds.	.085	15,923.80	Approved.	3-30-23
Sioux.		198-B	LeMars Sand and Gravel Co.	Gravel f. o. b. Hawarden	21,818 cu. yds.	.35	7,636.30	Approved.	4-2-23
Sioux.		198	LeMars Sand & Gravel Co.	Gravel at pit	10,270 cu. yds.	.10	1,027.00	Approved.	12-20-22
Sioux.		198-B	Estimated over-runs				22,620.53	Approved.	
Sioux.		223	Hartman and Peterson	Excavation	40,644 cu. yds.	.229			
				Excavation	485 cu. yds.	.229			
				Channel excav.	1,300 cu. yds.	.38			
				15" culvert labor	240 ft.	.30			
				18" culvert labor	276 ft.	.40			
				24" culvert labor	128 ft.	.40			
Sioux.		314	Bert Vander Schaaf	Stripping pit	4,800 cu. yds.	.35	10,146.15	Approved.	8-6-23
Sioux.		336	C. J. West	Gravel 1 mi.	21,535 cu. yds.	.35	1,690.00	Approved.	7-21-23
				Gravel ½ mi.	72,425 cu. yds.	.085	13,063.38	Approved.	3-30-23
Sioux.		336	LeMars Sand & Gravel Co.	Gravel-Hawarden	5,507 cu. yds.	.35			
				Gravel-Doon	9,799 cu. yds.	.405			
				Gravel-Doon	6,229 cu. yds.	.405			
Sioux.		336	Estimated over-runs				8,418.79	Approved.	4-2-23
Sioux.		337	C. J. West	Gravel 1 mi.	19,867 cu. yds.	.35	19,133.32	Approved.	
				Gravel ½ mi.	74,500 cu. yds.	.085	13,285.95	Approved.	3-30-23
Sioux.		337	LeMars Sand & Gravel Co.	Gravel-Rock Valley	5,304 cu. yds.	.405			
				Gravel-Rock Valley	6,802 cu. yds.	.405	4,902.83	Approved.	4-2-23
Sioux.		337	Estimated over-runs				13,257.90	Approved.	
Story.		231	Cook Brothers	Gravel 1 mi.	1,945 cu. yds.	.30			
				Gravel ½ mi.	12,300 cu. yds.	.10	2,068.00	Approved.	3-5-23
Story.		231	Albert Lawson	Gravel at pit	1,945 cu. yds.	.20	389.00	Approved.	3-12-23
Story.		232	Elmer Hoverstein	Gravel 1 mi.		.50			
				Gravel ½ mi.		.10			
Story.		232	Cook Brothers	Gravel 1 mi.		.40			
				Gravel ½ mi.		.10			
Story.		232	P. E. Shugart	Excavation	9,958 cu. yds.	.239	2,379.96	Approved.	5-26-23
Story.		232	Cook Brothers	Gravel 1 mi.	1,666 cu. yds.	.40			
				Gravel ½ mi.	13,400 cu. yds.	.10	2,066.40	Approved.	3-5-23
Story.		232	Albert Lawson	Gravel at pit	1,666 cu. yds.	.20	333.20	Approved.	3-12-23
Story.		232	J. J. Walker	6" tile drain	9,600 ft.	.118			
				Intakes	6	17.00	1,234.80	Approved.	3-8-23
			Johnson & Williams	Guard rail	200 ft.	.298			
				Guard rail	4,320 ft.	.268			
				Guard rail	12,860 ft.	.358	5,562.04	Approved.	3-12-23
Tama.	47		Carlson and Miller	Excavation	2,300 cu. yds.	.36	792.00	Approved.	12-1-22
Tama.	47		Chas. & Emma Luethje	Gravel at pit	6,000 cu. yds.	.40			
Tama.	176		Lewis Moe	Roadway per yr.		200.00	2,600.00	Approved.	3-24-23
				6" tile drain	3,140 ft.	.128			
				12" tile drain	500 ft.	.85			
				Intakes	2	20.00	800.92	Approved.	4-9-23
Taylor.	149		Earl Woodward	Type A baffles	497	8.95	4,448.15	Approved.	11-21-23
Taylor.	149		Geo. W. Condon	Earth excav.	14,000 cu. yds.	.35	4,900.00	Approved.	11-30-23
Taylor.	149		Extras	12" tile drain	65 ft.				
Union.	83-F		J. H. Miller & Sons	1 tile intake			75.00	Approved.	
				Earth excav.	100,400 cu. yds.	.268	26,925.69	Approved.	5-10-23

DEPARTMENT OF ROAD ADMINISTRATION

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County	Project Number		Contractor	Item	Estimated Quantities	Unit Price	Total Amount Contract	Action by Comm.	Date
	Federal	Primary							
Union	83-E		Geo. Cronkhite	Guard rail labor	2,800 ft.	.14			
				Guard rail complete	26,383 ft.	.19			
				Guard rail Type B	1,872 ft.	.50			
				End panels	128	.80			
				Int. panels	14	1.00			
				Baffles, labor	192	4.25			
Union	83-E		Estimated over-runs				7,273.17	Approved	8-14-23
Van Buren	165		G. L. Roberts	Earth excav.	117,585 cu. yds.	.25	10,000.00	Approved	
Van Buren	165		Phelan-Shirley Co.	Earth excav.	17,523 cu. yds.	.27	34,715.38	Approved	3-1-23
Van Buren	165			Earth excav.	197,636 cu. yds.	.249			
Wapello	159		Estimated over-runs				35,120.12	Approved	3-1-23
Wapello	159		Orr Const. Co.	Earth excav.	25,231 cu. yds.	.33	53,302.70	Approved	
			H. J. Murphy	Baffle walls	298	8.95	2,667.10	Approved	9-15-23
				Type A guard rail	23,216 ft.	.304			
				Type A guard rail	1,832 ft.	.34			
				Type C guard rail	1,776 ft.	.44	6,140.38	Approved	9-8-23
Warren	284		H. M. McCoy	Gravel 1 mi.	3,471 cu. yds.	.40			
Washington	182		N. C. Nelson	Gravel 1/2 mi.	37,323 cu. yds.	.10	5,120.70	Approved	10-6-23
Washington	182		Frank Bruggemeyer	Earth excav.	94,104 cu. yds.	.244	22,961.38	Approved	12-12-22
Washington	253		Empire Const. Co.	6" tile drain	6,000 ft.	.14	840.00	Approved	4-9-23
				Earth excav.	182,462 cu. yds.	.244			
Washington	306		T. C. Kyle	Loose rock	200 cu. yds.	1.50	44,820.73	Approved	1-13-23
				Sand 1 mi. haul	6,590 cu. yds.	.35			
				Sand 1/2 mi. haul	55,000 cu. yds.	.08			
				Sand 1 mi. haul	5,608 cu. yds.	.40			
				Sand 1/2 mi. haul	20,400 cu. yds.	.10	10,979.20	Approved	1-13-23
Washington	306		W. B. Black Company	Sand f. o. b. Mus-					
				catine	12,168 cu. yds.	.30			
Webster	182		Malkmus & Stephenson	Gravel 1 mi.	17,659 cu. yds.	.35	3,650.40	Approved	1-13-23
				Gravel 1/2 mi.	107,600 cu. yds.	.085			
				Stripping pit		.22			
Webster	182		Estimated over-runs				15,326.65	Approved	4-13-23
Webster	182		Floyd Miller	8" drain	500 ft.	.165	9,633.82	Approved	
				6" drain	10,000 ft.	.114			
				Intakes	5	16.00			
				Intakes	4	14.00			
Webster	183-C		C. E. Sargent Co.	Gravel 1 mi.	10,005 cu. yds.	.45	1,336.50	Approved	8-6-23
Webster	183-C		Estimated over-runs	Gravel 1/2 mi.	67,800 cu. yds.	.105	11,654.55	Approved	4-30-23

Webster	184-AB	G. E. Sargent Co.	Gravel 1 mi.	8,568 cu. yds.	.38				
			Gravel 1/2 mi.	85,800 cu. yds.	.064				
			Shaping road	5.492 mi.	75.00				
Webster	184-AB	Estimated over-runs					11,732.94	Approved	4-30-23
Winnebago	120	Jos. Curran	Excavation	4,406 cu. yds.	.24 1/2		4,397.25	Approved	
Winnebago	120	L. O. Kimball	Excavation	7,310 cu. yds.	.24 1/2		2,870.42	Approved	7-9-23
			Gravel 1 mi.	10,768 cu. yds.	.39				
			Gravel 1/2 mi.	63,400 cu. yds.	.08				
Winnebago	120	Geo. Westergaard	Stripping pit		.24		9,248.12	Approved	10-6-23
			6" tile drain	2,300 ft.	.15				
			10" tile drain	685 ft.	.27				
Winneshiek	98	Roy S. Tubbs	Intake	1	25.00		654.95	Approved	5-26-23
			Guard rail	1,201 ft.	.35				
			Guard rail	22,974 ft.	.19				
			Guard rail	224 ft.	.46				
Winneshiek	121	R. S. Tubbs	Guard rail	6,735 ft.	.30		6,908.95	Approved	1-25-23
			Guard rail	1,112 ft.	.35				
			Guard rail	30,957 ft.	.19				
			Guard rail	264 ft.	.46				
Woodbury	2-	C. F. Lytle	Guard rail	5,212 ft.	.30		7,956.07	Approved	1-25-23
Amend.			Excavation	2,377 cu. yds.	.63				
			Conc. pavement	7,560 sq. yds.	2.66				
Woodbury	2-	C. F. Lytle	Spec. Intakes	6	70.00		22,027.11	Approved	2-27-23
Amend.			Rough excav.	8,900 cu. yds.	.63				
			Finished excav.	19,019 cu. yds.	.63				
			Conc. pavement	58,173 sq. yds.	2.12				
Woodbury	2-	C. F. Lytle	Spec. Intakes	34	70.00		143,265.73	Approved	2-27-23
Amend.			Rough excav.	18,056 cu. yds.	.63				
			Finished excav.	16,430 cu. yds.	.63				
Woodbury	2-	C. F. Lytle	Conc. pavement	69,401 cu. yds.	2.53		197,906.93	Approved	2-27-23
Amend.			Rough excav.	12,600 cu. yds.	.63				
			Finished excav.	14,768 cu. yds.	.63				
			Conc. pavement	58,297 sq. yds.	2.16				
Woodbury	2-	Estimated over-runs	Intakes	4	70.00		143,443.36	Approved	2-27-23
Amend.							97,268.00	Approved	
Woodbury	2-	Geo. W. Condon	Excavation	243,404 cu. yds.	.2175				
Amend.			F. E. excav.	2,500 cu. yds.	.50				
			Channel change	1,525 cu. yds.	.65		55,181.02	Approved	6-9-23
Woodbury	2-	NW. Gravel Company	Class 2 aggr.	5,000 tons	1.20		6,000.00	Approved	5-19-23
Amend.									
Woodbury	162	J. J. Riddle	Type C guard rail	384 ft.	.46				
			Type A guard rail	560 ft.	.32				
			Type A guard rail	15,306 ft.	.225		3,709.00	Approved	10-8-23
Woodbury	188	C. F. Lytle	Excavation	58,772 cu. yds.	.63				
Woodbury	188	Estimated over-runs	Conc. pavement	84,526 cu. yds.	2.16 1/4		220,289.37	Approved	2-27-23
							42,394.60	Approved	



## SCHEDULE NO. 12—Continued

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IOWA STATE HIGHWAY COMMISSION

County	Project Number		Contractor	Item	Estimated Quantities	Unit Price	Total Amount Contract	Action by Comm.	Date
	Federal	Primary							
Worth.....		216	Leach Brothers Co.....	Earth excav.....	54,728 cu. yds.	.24			
				Earth excav.....	52,384 cu. yds.	.24			
Worth.....		216-C	Rafdal and Curtis.....	Earth excav.....	6,000 cu. yds.	.24	27,146.88	Approved.	3-13-23
				6" tile drain.....	1,100 ft.	.11			
				12" tile drain.....	2,565 ft.	.30			
Worth.....		216	E. J. Thraves.....	Intakes.....	3	30.00	980.50	Approved.	5-10-23
				Gravel 1 mi.....	7,800 cu. yds.	.30			
				Gravel 1/2 mi.....	74,800 cu. yds.	.095			
				Gravel crushed.....	7,800 cu. yds.	.15			
				Gravel 1 mi.....	4,062 cu. yds.	.40			
Worth.....		216	Chas. Chadima & Son.....	Gravel 1/2 mi.....	10,500 cu. yds.	.10	13,290.80	Approved.	2-26-23
				Type C guard rail.....	304 ft.	.42			
				Type B guard rail.....	372 ft.	.55			
				Type B guard rail.....	7,224 ft.	.475			
Worth.....		216	Estimated over-runs.....				3,752.68	Approved.	9-8-23
Worth.....		216	Estimated over-runs.....				100.00	Approved.	
Worth.....		216	Estimated over-runs.....				5,632.17	Approved.	
Wright.....		199	Peed and Son.....	Excavation.....	94,388 cu. yds.	.245	10,834.75	Approved.	
Wright.....		199	Knutson & Christenson.....	6" tile drain.....	19,292 ft.	.104	23,125.06	Approved.	6-6-23
				10" tile drain.....	2,500 ft.	.25			
				Intakes.....	12	18.00			
Wright.....		199	Estimated over run.....				2,847.37	Approved.	6-4-23
							8,739.63	Approved.	
Wright.....		341	Pewick Const. Co.....	Excavation.....	17,827 cu. yds.	.25	4,456.75	Approved.	6-4-23
				Gravel 1 mi.....	3,124 cu. yds.	.47			
				Gravel 1/2 mi.....	4,680 cu. yds.	.099			
Wright.....		341	Knutson & Christenson.....	Tile drain.....	2,126 ft.	.1257	1,931.60	Approved.	10-6-23
				Connections.....	32	1.00	299.23	Approved.	9-3-23
Wright.....		341	Estimated over-runs.....				1,028.33	Approved.	
Wright.....		341	Belmond Const. Co.....	Gravel—Clarion.....	3,124 cu. yds.	1.20	3,748.80		

Total—358 contracts approved. Amount, \$6,063,025.66.  
 2 contracts disapproved. Amount, 220,948.34.

## SCHEDULE NO. 13

CITY-PRIMARY ROAD CONTRACTS APPROVED BY HIGHWAY COMMISSION  
 DECEMBER 1, 1922—DECEMBER 1, 1923

City	Project No.	Contractor	Item	* Quantity	Price	Amount	Date Approved
Albia.....	C-16	Jas. Horrabin & Co.....	Pavement.....	7,018 sq. yds.	\$ 3.19		
			Curb and gutter.....	3,200 lin. ft.	1.10		
			Curb.....	90 lin. ft.	.50		
			Header drains.....	60 lin. ft.	.50		
			Inlets.....	5	75.00		
			Gutter plates.....	13	15.00		
			Curb.....	288.5 ft.	.45		
			Excavation.....	4,200 cu. yds.	.70		
			Storm drain.....	152.5 ft.	1.28		
			Storm drain.....	277.5 ft.	1.58		
			Storm drain.....	47.5 ft.	1.78		
Belle Plaine.....	C-6	Pickus Engr. & Const. Co.....	Storm drain.....	35 ft.	1.98	\$ 30,387.75	1-22-23
			Pavement.....	16,303 sq. yds.	2.89		
Burlington.....	C-18	Matthes Coal & Const. Co.....	Intakes.....	4	50.00	47,315.07	4-23-23
			Excavation.....	2,376 cu. yds.	.60		
			Telford macadam.....	5,974 sq. yds.	.25		
			Integral curb.....	7,758 lin. ft.	.35		
Carroll.....	C-19	Jas. McLaughlin & Sons.....	Paving.....	21,805 sq. yds.	2.82	67,221.90	2-8-23
			Pavement.....	12,818 sq. yds.	2.78		
Clear Lake.....	C-22	Anderson & Empie.....	Excavation.....	7,329 cu. yds.	.60	40,031.44	5-1-23
			Pavement.....	5,744 sq. yds.	2.67		
Chariton.....	C-24	O'Rourke Engr. Co.....	Excavation.....	1,112 cu. yds.	.70	16,114.88	5-8-23
			Pavement.....	3,340 sq. yds.	2.87		
Des Moines.....	C-21	Hawkeye Const. Co.....	Excavation.....	3,780 cu. yds.	.40	11,097.80	3-30-23
			Pavement.....	28,476 sq. yds.	2.66		
Decorah.....	C-15	Fred Carlson.....	Excavation.....		.48	75,746.16	3-6-23
			Excavation.....	820 cu. yds.	.65		
			Curb.....	1,500 lin. ft.	.62		
			Extra concrete.....	30 cu. yds.	16.00		
Lake City.....	C-27	Anderson & Empie.....	Pavement.....	10,150 sq. yds.	2.52	27,521.00	4-30-23
			Pavement.....	19,000 sq. yds.	3.00		
			Excavation.....	4,200 cu. yds.	.65		
			Curb and gutter.....	8,000 lin. ft.	.95		
			Curb.....	500 lin. ft.	.62		
			Intake covers.....	10,000 lbs.	.95	68,110.00	6-26-23

DEPARTMENT OF ROAD ADMINISTRATION

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City	Project No.	Contractor	Item	Quantity	Price	Amount	Date Approved
Manchester	C-26	Percy F. Smith	Pavement	20,000 sq. yds.	2.56		
			Excavation	2,480 cu. yds.	1.00		
			Curb and gutter	300 lin. ft.	.82		
			6" drain	2,000 lin. ft.	.40	80,700.30	7-5-23
Nevada	C-25	Empire Const. Co.	Pavement	9,300 sq. yds.	2.70		
			Excavation	1,400 cu. yds.	.30	56,000.00	5-21-23
Olinowa	C-23	Matthes Coal & Const. Co.	Pavement	16,012.67 sq. yds.	2.80		
			Curb	15,388 lin. ft.	.55	8,468.84	7-6-23

Total—17 contracts. Amount, \$35,300.32.

## SCHEDULE No. 14

SECONDARY-PRIMARY ROAD PROJECT CONTRACTS APPROVED BY COMMISSION  
DECEMBER 1, 1922-DECEMBER 1, 1923

County	Project No.	Date Approved	Contractor	Item	Quantity	Unit Price	Amount
Buena Vista	1	9-24-23	Harry Peterson	8" tile drain	3,300 ft.	\$ .118	
				5" tile drain	1,500 ft.	.174	
				5" tile drain	5,700 ft.	.123	
				7" tile drain	6,000 ft.	.121	
				Intake	1	20.00	\$ 2,008.90
Buena Vista	1	9-8-23	Duckworth Brothers	Stripping pit	3,200 cu. yds.	.25	800.00
Buena Vista	1	9-24-23	Duckworth Brothers	Stripping pit	3,200 cu. yds.	.24	768.00
Buena Vista	1	9-8-23	Strine Construction Co.	Graveling	9,108 cu. yds.	.38	
			Gravel 1/2 mile haul	41,800 cu. yds.	.005		
			Gravel 1/2 mile haul	100 cu. yds.	.35		7,461.70
Buena Vista	1	11-30-23	Knapp and McCloskey	Graveling	1,508 cu. yds.	.38	
			Gravel 1/2 mile haul	10,500 cu. yds.	.005		1,520.54

Total—3 contracts. Amount, \$11,638.60.

\*This contract replaces portion of work previously awarded to Strine Construction Co.

## SCHEDULE NO. 15

SECONDARY ROAD CONTRACTS APPROVED ASIDE FROM SECONDARY ROAD DISTRICT CONTRACTS AND SECONDARY PRIMARY ROAD PROJECT CONTRACTS DECEMBER 1, 1922-DECEMBER 1, 1923

County	Contractor	Item	Estimated Quantity	Unit Price	Amount of Contract	Action by Comm.	Date
Benton	Lewis Emanuel	Earth excavation	8,000 cu. yds.	\$ .25			
Black Hawk	Phelan Shirley Company	Earth excavation	2,500 cu. yds.	.36	\$ 2,650.00	Approved.	9-17-23
		Earth excavation	60,512 cu. yds.	.33	19,968.96	Approved.	4-9-23
Boone	Wm. Dutton	Earth excavation	64,500 cu. yds.	.26	16,770.00	Approved.	3-14-23
Bremer	L. O. Kimball	Gravel 1/2 mile haul	2,000 cu. yds.	.42			
		Gravel 1/2 mile haul	4,200 cu. yds.	.11	1,374.00	Approved.	7-11-23
Bremer	Nelson and Nelson	6" tile drain	23,240 ft.	.112			
		5" tile drain	4,840 ft.	.16			
		Intake	7	15.00			
Bremer	W. R. Shipman Const. Co.	Earth excavation	8,000 cu. yds.	.38	3,040.00	Approved.	7-10-23
		Stripping pit	3,200 cu. yds.	.35	4,304.00	Approved.	7-10-23
Cerro Gordo	J. E. Kuhn and Sons	Earth excavation	62,173 cu. yds.	.254	15,791.94	Approved.	5-10-23
Clinton	McAndrews and Hannah	Earth excavation	60,000 cu. yds.	.31			
		Solid rock	3,500 cu. yds.	2.10			
		Loose rock	4,300 cu. yds.	1.25			
		Stumps	70	Cost + 15%	34,115.00	Approved.	6-16-23
Dallas	Crispin and Co.	Earth excavation	11,740 cu. yds.	.25	3,287.20	Approved.	6-4-23
Delaware	Heldt and Boyles	Gravel 1/2 mile haul	8,000 cu. yds.	.37			
		Gravel 1/2 mile haul	32,400 cu. yds.	.063			
		Stripping pit	3,000 cu. yds.	.30	6,173.30	Approved.	5-18-23
Delaware	A. J. Fleckenstein	Gravel 1/2 mile haul	5,750 cu. yds.	.45			
		Gravel 1/2 mile haul	14,000 cu. yds.	.16			
		Stripping pit	2,000 cu. yds.	.30	4,957.50	Approved.	9-8-23
Dubuque	S. J. Groves & Son	Earth excavation	22,500 cu. yds.	.30			
		Solid rock	500 cu. yds.	1.85	7,975.00	Approved.	6-25-23
Emmet	E. J. Hatch	Earth excavation	20,773 cu. yds.	.298	5,962.16	Approved.	3-15-23
Franklin	C. N. Hildebrand	Guard rail	820 ft.	.44			
		Guard rail	734 ft.	.383	643.30	Approved.	6-25-23
Grundy	Mary Nicholson	Earth excavation	18,000 cu. yds.	.35	6,300.00	Approved.	7-9-23
Grundy	Chris. Jeppson	6" tile drain	44,800 ft.	.1135			
		Intake	70	17.00	5,458.80	Approved.	6-25-23
Hardin	W. W. McColloch	Earth excavation	71,100 cu. yds.	.243	17,277.30	Approved.	6-25-23
Ia	Geo. W. Condon	Earth excavation	91,700 cu. yds.	.23	21,111.70	Approved.	5-21-23
Ia	Geo. W. Condon	Earth excavation	8,300 cu. yds.	.23	1,868.80	Approved.	5-18-23
Kossuth	O'Hanlon & Reilly	Earth excavation	25,512 cu. yds.	.255			
		Earth excavation	12,236 cu. yds.	.275	9,807.71	Approved.	4-10-23



## SCHEDULE NO. 15—Continued

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County	Contractor	Item	Estimated Quantity	Unit Price	Amount of Contract	Action by Comm.	Date
Linn	J. Herbert and Sons	Earth excavation	17,482 cu. yds.	.88			
		Loose rock	250 cu. yds.	1.75			
		Solid rock	200 cu. yds.	2.75	7,680.16	Approved.	3-2-23
Linn	Wishard and Smalley	Gravel 1 mile haul	12,600 cu. yds.	.38			
		Gravel ½ mile haul	78,000 cu. yds.	.10			
		Stripping pit		.30			
Linn	E. J. Thraves	Shaping road	8 miles	18.00	12,504.00	Approved.	7-2-23
		Gravel 1 mile haul	14,100 cu. yds.	.34			
		Gravel ½ mile haul	146,490 cu. yds.	.10			
Linn	J. A. Milner	Shaping road	9.45 miles	50.00	19,365.90	Approved.	7-2-23
		Gravel 1 mile haul	4,875 cu. yds.	.34			
		Gravel ½ mile haul	86,625 cu. yds.	.10			
Linn	John Herbert & Sons	Shaping road	3.25 miles	50.00	10,482.50	Approved.	7-2-23
Linn	Perry Jayne	Earth excavation	14,342 cu. yds.	.385	5,521.67	Approved.	10-23-23
Linn	John Herbert & Sons	Guard rail labor	12,830 ft.	.195	2,501.85	Approved.	10-23-23
		Earth excavation	3,966 cu. yds.	.37			
		Loose rock		1.00			
		Solid rock		2.50	1,467.42	Approved.	4-30-23
Lyon	Ira Cox	Earth excavation	62,688 cu. yds.	.294			
		Earth excavation	91,940 cu. yds.	.274			
Lyon	Vander Schaaf and Vander Stouwe	Earth excavation	29,832 cu. yds.	.268	51,616.81	Approved.	7-2-23
		Gravel 1 mile haul	8,580 cu. yds.	.38			
Marshall	L. O. Kimball	Gravel ½ mile haul	46,010 cu. yds.	.0925	7,516.32	Approved.	8-14-23
		Gravel 1 mile haul	7,500 cu. yds.	.33			
		Gravel ½ mile haul	37,500 cu. yds.	.089			
		Stripping	1,000 cu. yds.	.20	6,012.50	Approved.	12-9-22
Palo Alto	W. R. Shipman Const. Co.	Earth excavation	60,664 cu. yds.	.283	17,167.91	Approved.	7-3-23
Pocahontas	Heldt and Boyles	Gravel 1 mile haul	8,125 cu. yds.	.40			
		Gravel ½ mile haul	39,100 cu. yds.	.09			
		Stripping	2,500 cu. yds.	.25	7,394.00	Approved.	8-14-23
Polk	C. O. Mitchell	Gravel 1 mile haul	13,150 cu. yds.	.485			
		Gravel ½ mile haul	85,750 cu. yds.	.13	17,525.25	Approved.	6-25-23
Scott	Jenner Brothers	Earth excavation	1,165 cu. yds.	.52			
		Gravel in place	631 cu. yds.	3.25			
		Approach pipe	134 ft.	.55	2,730.25	Approved.	9-18-23
Scott	Jenner Brothers	Earth excavation	3,388 cu. yds.	.40	1,355.20	Approved.	9-24-23
Scott	Jenner Brothers	Earth excavation	3,077 cu. yds.	.43			
		Graveling	800 cu. yds.	3.25			
		Pipe	40 ft.	.50	3,943.11	Approved.	9-18-23
		Earth excavation	32,240 cu. yds.	.333			

Scott	Jenner Brothers	Culvert pipe	777 ft.	.40			
		Earth excavation	2,600 cu. yds.	.385			
		Gravel in place	10,500 cu. yds.	2.86	42,077.72	Approved.	4-18-23
Scott	Jenner Brothers	Earth excavation	700 cu. yds.	.40			
		Gravel in place	1,750 cu. yds.	2.97	5,477.50	Approved.	4-18-23
Scott	Nielson and Nielson	6" tile drain	24,210 ft.	.119			
		Intakes	11	16.75	3,065.24	Approved.	4-18-23
Webster	Ryan Brothers	Earth excavation	34,330 cu. yds.	.274	9,406.42	Approved.	12-20-22
Winnebago	Gjellefeld Const. Co.	Earth excavation	74,340 cu. yds.	.265			
		Gravel 1 mile haul	21,874 cu. yds.	.35			
		Gravel ½ mile haul	127,494 cu. yds.	.10			
		6" tile drain	102,919 ft.	.14			
		8" tile drain	680 ft.	.24			
		Intakes	31	15.00			
		Intakes	4	18.00	55,207.06	Approved.	7-9-23
Winnebago	J. A. Dunkel	Earth excavation	538 cu. yds.	.35			
		Loose rock	2,000 cu. yds.	.75			
		Solid rock	13,255 cu. yds.	1.50			
		Crush gravel	5,968 cu. yds.	.65			
		Gravel 1 mile haul	5,968 cu. yds.	.28			
		Gravel ½ mile haul	11,982 cu. yds.	.19	28,319.24	Approved.	3-12-23
Woodbury	W. H. Dugan	Earth excavation	88,747 cu. yds.	.214	18,991.85	Approved.	11-12-23

Total—43 contracts. Amount, \$826,711.82.

## SCHEDULE NO. 16

SECONDARY ROAD DISTRICT CONTRACTS APPROVED BY HIGHWAY COMMISSION,  
DECEMBER 1, 1922—DECEMBER 1, 1923.

County	District Number	Contractor	Item	Estimated Quantity	Unit Price	Amount of Contractor	Date of Approval
Boone	14	Pestotnik Brothers	Gravel on road	2,400 cu. yds.	\$ 1.35	\$ 3,440.00	11-12-23
Boone	25	Munson and Sons	Gravel 1 mi. haul	10,500 cu. yds.	.40		
			Gravel ½ mi. haul	90,750 units	.105	14,673.75	7-9-23
Boone	34	Pestotnik Brothers	Gravel on road	1,200 cu. yds.	1.47	1,764.00	11-12-23
Boone	38		Gravel 1 mi. haul	7,500 cu. yds.	.39		
			Gravel ½ mi. haul	9,000 units	.065	3,790.00	5-12-23
Boone	42	Dolson and Anderson	Gravel 1 mi. haul	5,400 cu. yds.	.37		
			Gravel ½ mi. haul	54,000 units	.09	6,858.00	7-21-23
Boone	43	A. J. and Dave Fauseh	Gravel 1 mi. haul	6,000 cu. yds.	.37		
			Gravel ½ mi. haul	89,400 units	.09	10,266.00	8-6-23
Boone	44	Dolson and Anderson	Gravel 1 mi. haul	3,750 cu. yds.	.38		
			Gravel ½ mi. haul	11,625 units	.065	2,529.37	7-21-23

IOWA STATE HIGHWAY COMMISSION

DEPARTMENT OF ROAD ADMINISTRATION

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## IOWA STATE HIGHWAY COMMISSION

SCHEDULE NO. 16—Continued

County	District Number	Contractor	Item	Estimated Quantity	Unit Price	Amount of Contractor	Date of Approval
Boone	45	Dolson and Wilder	Gravel 1 mi. haul	11,250 cu. yds.	.35	15,750.00	5-10-23
Boone	51	G. E. Sargent & Co.	Gravel 1/2 mi. haul	131,250 units	.09	9,142.00	8-6-23
Boone	52	G. E. Sargent & Co.	Gravel 1/2 mi. haul	60,250 units	.11	7,530.00	8-6-23
Boone	56	Dolson and Anderson	Gravel 1/2 mi. haul	52,800 units	.38	1,246.88	7-21-23
Boone	15	Munson and Sons	Gravel 1/2 mi. haul	1,125 units	.095	2,805.00	7-9-23
Boone	33	M. O. Weaver	Gravel 1/2 mi. haul	3,300 cu. yds.	.11	5,751.00	6-4-23
Calhoun	33	M. O. Weaver	Gravel 1/2 mi. haul	12,900 units	.42	7,400.54	6-16-23
Calhoun	36	Moody and Foster	Gravel 1/2 mi. haul	30,000 units	.085	3,498.12	8-10-23
Dallas	28	Moody and Foster	Gravel 1/2 mi. haul	52,776 units	.35	6,427.00	8-10-23
Dallas	35	Moody and Foster	Gravel 1/2 mi. haul	23,125 units	.085	8,466.47	7-3-23
Dallas	35	Moody and Foster	Gravel screening	3,750 cu. yds.	.04	10,651.20	7-3-23
Dallas	35	Moody and Foster	Gravel 1/2 mi. haul	7,500 cu. yds.	.37	2,088.00	11-3-23
Kossuth	17	Wilder and Wilder	Gravel 1/2 mi. haul	41,250 units	.04	2,935.00	10-2-23
Kossuth	21	W. H. McDaniel	Gravel screening	10,668 cu. yds.	.38	8,313.89	
Kossuth	21	W. H. McDaniel	Gravel 1/2 mi. haul	28,176 units	.045		
Story	40	L. O. Kimball	Gravel stripping	7,000 cu. yds.	.25		
Webster	1	A. J. Malingier	Gravel 1/2 mi. haul	13,750 cu. yds.	.3724		
Webster	1	A. J. Malingier	Gravel stripping	38,250 units	.0882		
Woodbury	1	Volles Const. Co.	Gravel on road	6,250 cu. yds.	.2744		
Woodbury	1	Volles Const. Co.	Gravel stripping	1,200 cu. yds.	1.71		
Woodbury	1	Volles Const. Co.	Gravel 1/2 mi. haul	3,000 cu. yds.	.39		
Woodbury	1	Volles Const. Co.	Gravel stripping	16,500 units	.09		
Woodbury	1	Volles Const. Co.	Gravel 1/2 mi. haul	1,000 cu. yds.	.28		
Woodbury	1	Volles Const. Co.	Gravel 1/2 mi. haul	8,130 cu. yds.	.42		
Woodbury	1	Volles Const. Co.	Gravel 1/2 mi. haul	44,589 units	.11		

Total—21 contracts. Amount, \$135,546.22.

## DEPARTMENT OF ROAD ADMINISTRATION

SCHEDULE NO. 17

SECONDARY ROAD DISTRICTS FOR GRAVEL SURFACING ESTABLISHED BY RESOLUTION OF BOARD OF SUPERVISORS, DECEMBER 1, 1922—DECEMBER 1, 1923.

County	District Number	Length in Miles	Approx. Area in Acres	Date Established	Date Filled With Commission
Boone	25	6.00	3,840	5-28-23	7-11-23
Boone	34	2.00	2,500	2-19-23	2-21-23
Boone	50	6.00	3,840		6-2-23
Boone	51	4.00	3,520	5-22-23	5-24-23
Boone	52	3.50	2,080	5-22-23	5-24-23
Boone	56	0.75	900	7-16-23	7-18-23
Buena Vista	37	5.50	3,520	8-7-23	8-22-23
Buena Vista	38	4.00	2,500	8-7-23	8-22-23
Buena Vista	39	5.50	2,240	8-7-23	8-22-23
Calhoun	25	4.00	5,120	5-8-23	5-11-23
Calhoun	33	5.00	6,400	5-8-23	5-11-23
Calhoun	41	4.00	5,120	4-24-23	5-11-23
Calhoun	44	1.00	1,280	5-8-23	5-11-23
Calhoun	47	5.00	6,400	9-10-23	9-15-23
Calhoun	48	6.00	7,680	9-11-23	9-15-23
Calhoun	50	6.75	8,320	9-10-23	9-15-23
Carroll	1	2.00	1,280	12-22-22	2-7-23
Cerro Gordo	4	9.75	19,020	3-27-23	4-4-23
Cerro Gordo	5	8.00	13,920	3-27-23	4-4-23
Dallas	25	3.75	1,840	8-1-23	8-10-23
Dallas	28	2.50	2,680	7-16-23	8-10-23
Dallas	30	3.00	1,760	11-10-22	12-1-22
Dallas	31	1.27	560	11-10-22	12-1-22
Dallas	32	4.50	3,760	7-16-23	8-10-23
Dallas	33	3.40	2,440	7-16-23	8-10-23
Dallas	34	2.00	1,600	8-15-23	8-20-23
Dallas	35	6.00	4,320	7-16-23	8-10-23
Dallas	36	2.50	1,760	7-16-23	8-10-23
Dallas	37	0.75	720	7-16-23	8-10-23
Dallas	38	2.25	1,400	8-15-23	8-20-23
Dallas	39	3.25	2,900	8-15-23	8-20-23
Dallas	40	1.50	1,000	8-15-23	8-20-23
Dickinson	7	6.00	3,840	10-30-23	11-10-23
Emmet	24	8.00	5,120	6-4-23	7-9-23
Franklin	11	8.50	15,000	2-16-23	7-3-23
Franklin	17	2.00	1,720	6-21-23	7-2-23
Hamilton	1	1.00	610	9-20-23	10-8-23
Kossuth	17	7.25	7,680	6-20-23	6-23-23
Kossuth	21	10.50	7,680	6-20-23	6-23-23
Kossuth	36	4.00	2,500	6-20-23	6-23-23
Sac	17	2.50	1,680	6-2-23	6-16-23
Story	40	0.75	395	10-16-23	10-27-23
Woodbury	1	5.15	8,200	7-5-22	9-28-23
Wright	19	2.75	3,040	9-21-23	10-11-23
Wright	22	1.00	1,920	9-21-23	10-11-23
Total	45	184.82	185,875		



## CHAPTER VII

## Department of Road Design

## SCHEDULE NO. 18

## PROJECTS ON WHICH SURVEYS WERE COMPLETED DURING 1923.

During 1923 the amount of preliminary survey work was much smaller than in previous years. Three seven-man parties have been able to complete the necessary survey mileage. In 1922, seven of such parties were required.

The office work on plans has been correspondingly curtailed. Practically no plan work has been conducted in the offices of the district engineers since the spring months. The force in the central office has been able to successfully handle the necessary work.

## Surveys.

Between December 1, 1922 and December 1, 1923 surveys were completed on 499 miles of primary road, as shown by Schedules 18 and 19. The total mileage of primary road surveys prior to December 1, 1922 was 4,588 miles. The 1923 mileage added to this total brings the total survey mileage up to 5,087 miles. A list of the counties in which surveys have been completed appears in Schedule No. 22.

## Plans.

Between December 1, 1922 and December 1, 1923 road plans were completed for 946 miles. Prior to December 1, 1922 the total mileage of primary road plans prepared was 5,017 miles. The above mileage for 1923 added to this total brings the present total of plans prepared to 5,963 miles. This figure is in excess of the survey mileage due to the fact that in most cases it is possible to prepare plans for surfacing projects by using old plans previously prepared for the grading of the same road. In such cases no surveys are necessary. A list of projects on which plans were completed during 1923 appears in Schedule No. 20. Schedule No. 21 lists the projects on which plans were begun but not completed.

## Secondary Road Plans.

Secondary road plans totaling 138.5 miles were checked and approved during 1923. The following data pertaining to these plans is of interest:

Mileage of plans checked and approved.....	138.46 miles
Average original maximum grade.....	8.70%
Average final maximum grade.....	4.91%
Average original rise and fall.....	54.7 ft.
Average final rise and fall.....	44.1 ft.
Total earthwork .....	1,067,227 cu. yds.
Average earthwork per mile.....	7,708 cu. yds.

County	Project No.	Mileage
Adair.....	P-116	12.4 New F. 129
Adair.....	T-346	13.9
Adair.....	T-344	5.2
Adair.....	T-342	1.7 Relocation
Adair.....	P-231	6.2
Adair.....	T-337	12.2
Adair.....	P-38	1.3 Extension
Adair.....	P-360	3.9
Adair.....	P-57	0.7 Relocation
Adair.....	P-114	0.8 Relocation
Adair.....	T-338	15.7
Adair.....	T-339	7.9
Adair.....	P-202	8.2
Adair.....	P-333	5.8
Adair.....	P-259	5.9 Relocation
Adair.....	T-321-A	3.0 Now F. 183
Adair.....	T-321-B	16.8 Now F. 204
Adair.....	P-286	10.7
Adair.....	P-289	7.5
Adair.....	P-250	13.0
Adair.....	T-334	11.0
Adair.....	P-338	1.0
Adair.....	P-23	2.0 Relocations
Adair.....	P-301	6.5
Adair.....	P-301	4.2
Adair.....	P-354	1.1
Adair.....	F-39	1.0
Adair.....	F-208	15.0
Adair.....	P-323	16.0 Now F. 183
Adair.....	P-348	1.5
Adair.....	P-303	11.5
Adair.....	P-38	2.2 Extensions
Adair.....	P-353	0.4
Adair.....	P-34	10.3
Adair.....	T-350	12.7
Adair.....	P-213	13.2
Adair.....	P-40	0.4
Adair.....	P-194	1.5 Alternate
Adair.....	P-129-A	6.4
Adair.....	P-139	19.5 Alternate
Adair.....	P-64	14.5 Alternate
Adair.....	P-307-C	0.8 Relocation
Adair.....	P-346	20.5
Adair.....	P-149-B	6.1
Adair.....	P-221	32.8
Adair.....	T-541	2.8
Adair.....	P-278	4.5
Adair.....	F-169-A	3.3 Alternate
Adair.....	P-146	1.5 Relocations
Adair.....	P-127	7.0
Adair.....	P-287	12.0
Adair.....	P-321	12.0
Adair.....	T-545	21.5
Adair.....	P-28	16.0 Alternates
Adair.....	P-38-A	6.5
Adair.....	P-137	3.4 Relocation
Adair.....	F-38	4.0 Relocation
Adair.....	P-192	0.8 Relocation
Adair.....	P-199	2.5
Adair.....	P-1	4.5
Adair.....	P-349	0.7
Adair.....	P-124-B	1.5 Relocation
Adair.....	T-351	7.4
Adair.....	P-149	0.3 Extension
Adair.....	T-547	7.2
Adair.....	P-139	0.4 Extension
Adair.....	P-2	13.7
Adair.....	P-185	9.8 Alternates
Adair.....	P-216	0.6 Extension
Adair.....	P-341	2.0
Adair.....	Wright	
Total.....	70 Items	515.2 Miles



## SCHEDULE NO. 19

PROJECTS ON WHICH SURVEYS WERE IN PROGRESS BUT NOT COMPLETED DURING 1923

County	Project Number	Total Length	Miles of Survey Completed
Adair	P-308	4.6	3.4
Benton	T-542	24.8	7.4
Dickinson		2.0	0.8
Van Buren	T-512	3.0	1.8 Alternates
Total		34.4	13.4

## SCHEDULE NO. 20

PROJECTS ON WHICH PLANS WERE COMPLETED DURING 1923

County	Project Number	Mileage
Adair	F-173-C	8.6
Adair	F-173-C	.4 Revision
Allamakee	F-161	.4 Revision
Allamakee	F-197	7.8
Allamakee	P-237	2.1
Allamakee	P-305	2.6
Appanoose	P-227-C	2.5
Audubon	F-52-A	12.6
Black Hawk	F-200	13.8
Black Hawk	F-201	11.5
Black Hawk	F-202	6.8
Black Hawk	P-164	1.7 Revision
Black Hawk	P-302-AC	3.5
Black Hawk	P-302-BD	8.1
Black Hawk	P-331	6.2 Tiling only
Black Hawk	P-350	11.0
Bremer	P-277	14.7
Bremer	P-334	5.2
Buena Vista	P-49	26.5
Butler	P-167	1.3 Extension
Butler	P-267	14.6
Carroll	F-151	1.0 Revisions
Carroll	F-154-B	13.0
Cedar	F-57	11.0 Relocation
Cedar	P-114-B	22.0
Cedar	P-316	3.1
Cedar	P-316	.8 Revisions
Cherokee	P-151-B	9.5
Cherokee	P-151-EFGH	6.0
Cherokee	P-295	22.0
Clarke	P-313	10.6
Clay	P-56	7.3
Clay	P-256	15.5
Clay	P-259-A	2.6
Clay	P-259-BCD	24.7
Clay	P-259-E	2.2
Clayton	F-156	.2 Extension
Clayton	P-166	10.6
Clayton	P-346	.5
Calyton	P-358	8.3
Clinton	F-186-B	1.7
Clinton	F-189	2.7
Clinton	F-204	14.5
Clinton	F-205	1.7
Clinton	P-352	14.5
Crawford	P-288-BCD	10.0
Crawford	P-289-A	7.5
Dallas	P-196-A	4.5
Davis	F-158	16.0
Decatur	P-318	11.0

## SCHEDULE NO. 20—Continued

County	Project Number	Mileage
Decatur	P-319	5.7
Delaware	P-236-AB	.5 Revisions
Delaware	P-236-C	8.5
Delaware	P-338	1.1
Fayette	F-59	3.4 Extensions
Fayette	F-59-D	4.5
Fayette	F-172	.3 Revision
Fayette	P-143-A	11.0
Fayette	P-268	6.1
Floyd	P-269	5.0
Franklin	P-354	1.1
Greene	F-39	1.0 Amendment
Greene	F-193	17.0
Greene	F-203	17.1
Greene	P-153	1.5 Relocation
Greene	P-347	1.9
Greene	P-348	1.5
Greene	P-357	3.0
Hamilton	P-217	6.0
Hamilton	P-218	6.0
Hamilton	P-344	6.8
Hancock	F-195	11.1
Hardin	P-88	2.2 Extensions
Harrison	P-330	11.9
Henry	F-151	7.3
Henry	F-151	.3 Revision
Howard	F-190	.3 Revision
Howard	P-103-ABC	.8 Revision
Howard	P-103-DE	11.6
Ida	P-101	.4 Extension
Jasper	F-64-D	5.4
Jasper	F-64-E	9.5
Jasper	P-99-A	11.1
Johnson	P-207-B	11.6
Johnson	P-310	3.9
Johnson	P-311	5.1
Jones	F-163	18.8
Keokuk	P-245	20.0
Kossuth	P-6-D	1.5
Kossuth	P-283	.1
Linn	F-96-B	5.6
Linn	P-221-E	1.1
Linn	P-345	.1
Louisa	P-75	1.8 Revisions
Louisa	P-179	7.0
Lyon	P-229	15.8
Lyon	P-292-B	4.8
Madison	F-169-AC	10.2
Mahaska	F-70-E	3.1
Mahaska	F-70-E	.5 Revision A
Mahaska	F-70-E	2.0 Revision B
Mahaska	F-146	1.6 Relocation
Marion	F-75-DE	9.0
Marion	P-248	2.4
Marion	P-315	15.6
Marion	P-320-B	2.8
Marion	P-322-A	10.3
Marshall	P-240	6.0
Marshall	P-356	8.3
Monona	F-184	.7 Revision
Monona	P-83-B	1.6 Revision
Monona	P-38-D	3.9
Monona	P-38-D	1.9 Revision
Monroe	P-78-A	4.0
Monroe	P-294	12.3
Muscatine	P-265-A	10.1
Muscatine	P-265-B	2.6
O'Brien	P-335	8.1
Palo Alto	P-219-B	10.7
Plymouth	F-192	18.8
Plymouth	P-350	3.0
Plymouth	P-353-A	3.0
Plymouth	P-353-B	2.8
Pocahontas	P-339	24.2



## SCHEDULE NO. 20—Continued

County	Project Number	Mileage
Polk	F-119	2.5
Polk	F-187	9.0
Polk	P-349	.9
Pottawattamie	P-297	17.0
Pottawattamie	P-298	5.4
Ringgold	B-263	.3
Sac	P-210	5.2
Sac	P-304-A	9.0
Sac	P-304-B	4.0
Scott	F-55	.5 Revision
Scott	F-135-B	.1 Revision
Sioux	P-223	.2 Revision
Sioux	P-223-D	7.7
Sioux	P-314	1.0
Sioux	P-336	13.8
Sioux	P-337	12.7
Sioux	P-343	1.3
Story	Town-College Connections, Ames	6.4 Including alternates
Tama	P-300	12.7
Warren	P-44-A	1.0 Extension
Warren	P-44-B	9.5
Washington	P-321	6.8
Wayne	P-253	.5 Revision
Webster	P-317	14.4
Webster	P-182	11.3
Webster	P-183	6.5
Webster	P-184	5.5
Webster	P-343	1.5
Winnebago	P-129	.4 Extension
Winneshek	P-177	15.3
Woodbury	F-2	18.0 Amendment A
Woodbury	F-2	17.2 Amendment B
Woodbury	F-2	16.5 Amendment C
Woodbury	F-2	16.2 Amendment G
Woodbury	F-2	.4 Amendment H
Woodbury	F-188	8.0
Worth	P-216	.3 Relocation
Worth	P-216	.6 Extension
Wright	P-199	7.4
Wright	P-341	2.0
Total	164 Items	1,142.4 Miles

## SCHEDULE NO. 21

PROJECTS ON WHICH PLANS WERE IN PROGRESS BUT NOT COMPLETED DURING 1923

County	Project Number	Total Length	Miles of Plans Completed
Adair	P-308	4.6	.9
Allamakee	P-156	12.5	10.6
Allamakee	P-158	6.5	5.2
Audubon	P-170	9.0	7.6
Black Hawk	P-331	5.5	2.7 Grading and gravelling
Butler	P-261	12.0	2.4
Cedar	F-57	8.0	7.2 Including alternates
Cedar	T-538	14.3	1.4
Cerro Gordo	P-89	5.5	4.7
Clarke	P-333	5.4	4.3
Dallas	P-251	7.5	5.2
Davis	T-534	11.0	5.5
Des Moines	P-193	8.3	7.0
Dickinson	P-23-ABC	7.4	6.3
Fayette	F-168	13.6	10.8

## SCHEDULE NO. 21—Continued

County	Project Number	Total Length	Miles of Plans Completed
Fayette	P-144-B	.7	.6
Fayette	P-144-C	8.8	7.4
Fremont	P-84	15.0	12.0
Guthrie	P-51-B	8.0	6.8
Guthrie	P-52	14.0	11.9
Hardin	P-351	.5	.3
Iowa	F-90	1.7	1.4 Relocation
Iowa	P-130	39.6	19.8 Including alternates
Iowa	P-312	12.2	9.7
Jackson	F-143	.8	.6 Relocation
Jones	P-266	13.3	10.6
Kossuth	P-6-C	10.5	7.9
Lee	P-149-B	16.0	12.0
Lucas	P-278	4.6	3.6
Madison	F-169	3.2	2.5 Relocation
Marshall	T-545	24.0	14.1
Mills	P-37	8.0	6.8
Mitchell	P-138-D	10.0	8.0
Montgomery	P-65	18.0	14.4
Page	P-264	11.0	8.8
Palo Alto	P-340	13.0	6.5
Plymouth	P-189-A	4.3	3.6 Omitted from F-181
Plymouth	P-189-B	4.0	3.4 Alternates
Plymouth	T-515	24.0	18.0
Poweshiek	P-41-B	11.0	7.7
Scott	P-55-D	3.3	2.6
Shelby	P-154	10.0	8.5
Sioux	P-223	2.3	.6
Taylor	F-149	.3	.3 Extension
Taylor	F-196	9.5	7.6
Van Buren	F-165-G	3.5	2.8 Including alternates
Van Buren	T-511	10.3	7.7
Van Buren	T-512	10.0	5.0
Washington	F-167-D	5.6	4.7
Webster	P-184-EFG	4.0	3.4
Winneshek	F-98-E	1.6	1.3
Woodbury	P-185	16.5	14.0
Total	52 Items	484.2	338.9

## SCHEDULE NO. 22

Counties in Which Surveys Are Completed

Name of County	Delaware	Lyon
Adams	Emmet	Osceola
Black Hawk	Fayette	Page
Buena Vista	Franklin	Pocahontas
Calhoun	Grundy	Polk
Butler	Hamilton	Sac
Carroll	Hancock	Scott
Cedar	Hardin	Sioux
Cerro Gordo	Howard	Story
Cherokee	Humboldt	Tama
Chickasaw	Ida	Taylor
Clay	Jackson	Van Buren
Crawford	Jefferson	Winnebago
Dallas	Jones	
Davis	Kossuth	



## CHAPTER VIII

### Construction Department

#### Conditions Affecting Construction Work.

The 1923 construction season has not been materially affected by any unusual conditions other than bad weather.

Building materials have been plentiful, transportation adequate, and labor conditions normal.

Contractors were quite seriously delayed during the months of September and October by frequent rains but these delays were offset in part by an unusually long open fall and winter.

The Construction program outlined for 1923 contemplated finishing all work carried over from 1922 and the new work consisting of approximately 45 miles of paving, 300 miles of graveling and 700 miles of grading.

The paving program has been slightly exceeded. The graveling work has been just a little less than contemplated. The grading program has fallen considerably short of what was originally planned, largely due to the fact that some of the laws passed by the Fortieth General Assembly effected the finances, in a way that left insufficient funds available.

During 1922 1,069.68 miles of road were graded involving the moving of 12,500,000 cubic yards of excavation. During 1923, 837.45 miles were graded involving the moving of 11,186,688 cubic yards of excavation.

#### Construction Work Carried Over Into 1923.

On December 1, 1922 construction work was under way on 152 projects located in 77 counties. These projects involve the following uncompleted work:

Paving .....	50.71 miles
Graveling .....	197.55 miles
Grading .....	455.27 miles
Tiling .....	1,173,960 feet

Work on these projects was continued in 1923 and practically completed and retired.

#### Construction Work Completed During 1923.

(Refer to Schedule 23.)

During 1923 the following construction work was completed on Federal Aid and Primary Road Projects:

Paving .....	100.69 miles
Graveling .....	443.79 miles
Grading .....	837.45 miles
Tiling .....	2,161,741 feet
Bridges and culverts.....	1,815

#### Construction Work Carried Over Into 1924.

During 1923 contracts were let on 85 additional Federal Aid and Primary Projects. (Refer to Schedule 11 and 12). On December 1, 1923 construction work was under way on 130 projects located in 69 counties.

These projects included the following uncompleted work:

Paving .....	33.68 miles
Graveling .....	59.15 miles
Grading .....	149.85 miles
Tiling .....	523,005 feet
Bridges and culverts.....	282

This work is being carried over into 1924.

#### Projects Completed and Retired.

There has been completed and retired to date a total of 267 Federal Aid and Primary road projects. Of this number 160 were completed prior to 1923 and 107 were completed and retired during 1923. (Refer to Schedule No. 24).

#### Projects Ready to Be Retired.

On 54 projects which are still carried on the active list the actual work of construction has been all finished and the projects will be accepted and retired early in 1923. (Refer to Schedule 25).

#### City Paving Projects.

Chapter 230, Acts of the Thirty-ninth General Assembly, provides for paving on extensions of primary roads within cities. Under this Act, during 1923 there have been constructed sixteen projects. The work done is equivalent to 23.70 miles of eighteen-foot pavement. (See Schedule No. 26).

#### Assignments of Government Equipment.

The distribution of Government Equipment started in 1919 has continued during 1923.

49 trucks valued at.....	\$58,850.00
4 tractors valued at .....	9,250.00
Trailers, wagons, carts and rolling stock valued at .....	47,100.00
Shop machinery valued at.....	12,608.00
General supplies valued at.....	43,564.60
	<hr/>
	\$171,372.60



Six (6) trucks and one (1) trailer, valued at \$7,400.00 and miscellaneous general supplies, valued at \$46,542.16 have been assigned to the Board of Control of State Institutions. Small tools, to the amount of \$355.36 were assigned to the Park Commission, and machinery and general supplies valued at \$3,566.68 were assigned to the Iowa State College and University of Iowa respectively. (Refer to Schedule No. 27).

#### Government Equipment Received.

During 1923 Iowa received from the Federal Government equipment valued at \$321,853.75. (Refer to Schedule No. 28).

This equipment consisted of 12 trucks valued at \$13,550.00, 3 tractors valued at \$6,000.00, 16 Dodge, 1 Cadillac and 1 White Reconnaissance cars valued at \$7,875.00 and miscellaneous shop equipment, tools, building materials and general supplies valued at \$294,428.75.

The total value of equipment received from the Government up to December 1, 1923 is \$4,363,054.75.

#### Cost of Government Equipment to the State.

The cost of transporting such equipment to the State is paid by the Executive Council from the General State Fund. The cost of the ground where the equipment is stored, erecting the necessary buildings, unloading, storing and handling was paid by the Highway Commission from its Maintenance Fund.

The expenditures from December 1, 1922 to December 1, 1923 were as follows:

Executive Council for freight and packing.....	\$87,554.11
Highway Commission for ground buildings and improvements .....	28,519.60
Highway Commission for unloading, storing and handling .....	8,824.23
	<hr/>
	\$104,897.95

#### Storage and Equipment.

The 1922 Annual report described the eight buildings erected in previous years for the purpose of storing unassigned equipment allotted by the Federal Government. An additional building was necessary to adequately care for this equipment. A contract for the construction of this building was let and on December 1st was about 80% complete.

A small blacksmith shop has been built in connection with the repair shop, fully equipped from war surplus assignments.

A few additional machines have been installed in the repair shop, including a Heald grinder, which is the only piece of shop equipment not received from the Government.

All Trucks allotted to the counties have been thoroughly overhauled before sending out, and in years have been sent to these shops, completely overhauled and repaired. The actual costs of such repairs are paid by the county receiving the truck. The counties are under no obligations to have their trucks repaired in the Commission's shop. It is entirely optional with the counties whether they get this repair work done at the Commission's shop or at some commercial shop.

#### Bridges and Culverts Constructed.

Construction of bridges and culverts has continued as provided by the laws enacted by the Thirty-eighth and Thirty-ninth General Assemblies.

During the season covered by this report there have been in active operation 113 bridge projects in 66 counties involving a total of 3,819 structures. (Refer to Schedule No. 29.)

During 1923, 72 projects were completed and a total of 1,815 structures built.



SCHEDULE NO. 23  
ROAD CONSTRUCTION WORK COMPLETED  
DECEMBER 1, 1922—DECEMBER 1, 1923

90

IOWA STATE HIGHWAY COMMISSION

County	Project Number	Tiling	Grading		Graveling		Paving		Percent Completed
		Lineal Feet	Miles	Cubic Yards	Miles	Cubic Yards	Miles	Square Yards	
Adair	F-173	7,934	5.40	130,100					100
Adams	P-152		5.96	97,716					100
Allamakee	P-161	—240	9.84	116,284					70
Allamakee	P-169		.45	4,730					100
Allamakee	P-170		7.40	131,950					63
Appanoose	P-305		1.27	12,997					100
Appanoose	P-76		1.08	10,856					100
Black Hawk	P-227	4,774	7.40	146,000					80
Black Hawk	F-62	—1,140	3.17	28,057			9.57	100,556	100
Black Hawk	P-164		5.25	36,000					100
Black Hawk	P-233	79,905	12.79	165,000					100
Black Hawk	P-302		.56	46,000					26
Bremer	P-331	29,834							100
Bremer	P-191		2.25	39,371					100
Bremer	P-228				3.94	5,988			100
Bremer	P-277	50,377							83
Buchanan	P-334	31,382							92
Buchanan	F-5	1,419							100
Buena Vista	P-300	8,335	1.91	6,000			1.91	20,142	100
Buena Vista	F-37	2,350	.98	3,512	.98	1,825			100
Buena Vista	P-49	36,000	1.48	13,018					100
Buena Vista	P-93	1,410	.08	203	.84	1,306			27
Butler	P-71		.50		.52	2,187			100
Butler	P-167	16,823	3.14	52,143	14.50	22,050			100
Butler	P-267	70,522							100
Calhoun	F-85	5,968							57
Carroll	P-96				1.00	1,390			100
Carroll	F-154	4,135	2.92	27,400	9.46	15,000			100
Cedar	P-226		2.26	51,750					100
Cedar	F-57	25,078	7.44	63,887					100
Cedar	P-114	51,406	24.16	245,512					100
Cedar	P-316		.31	7,431					86
Cerro Gordo	P-275	31,628	12.00	131,947	6.23	9,719			30
Cherokee	P-151	1,984			8.21	11,925			83
Cherokee	P-214		6.23	95,862					100

Cherokee	P-249				5.50	8,580			100
Cherokee	P-295				22.11	34,623			100
Chickasaw	F-160	10,300	1.18	12,317					28
Chickasaw	F-177	5,362							100
Clarke	P-31	4,920	.36						100
Clarke	P-313		7.30	91,700					87
Clay	P-56	10,892	— .34	9,500	6.48	10,240			99
Clay	P-256	30,900	1.60	41,694					73
Clay	P-259	32,039	2.44	44,500					70
Clay	F-74		3.31	64,340	13.92	21,696			73
Clayton	F-156		9.67	201,155					90
Clayton	F-346		.48	3,112					100
Clinton	F-147		1.49	5,700			2.83	28,858	100
Clinton	F-186		4.52	18,000			4.40	46,891	100
Clinton	F-189	12,000	2.48	19,000			2.69	29,828	97
Clinton	P-271		2.10	47,000					100
Clinton	P-272		.61	9,500					39
Clinton	P-352	12,000	5.37	69,000					37
Crawford	P-8		.12	7,000					100
Crawford	P-288		1.87	25,000					55
Crawford	P-289	2,748	4.60	72,000					64
Dallas	P-195				10.85	11,750			100
Dallas	P-196	9,175	6.54	83,854					100
Davis	F-153	184	11.04	155,870					99
Davis	F-158		9.19	86,800					60
Decatur	F-122		2.97	34,340					100
Decatur	P-318	1,064	2.44	34,318					100
Delaware	F-103		1.64	21,448	10.13	16,513			100
Delaware	P-236	84,721	16.56	229,114					90
Delaware	P-338	2,600	1.07	7,436	1.07	1,996			100
Des Moines	P-273	8,957	1.50	4,415			1.50	14,512	100
Dubuque	F-17		.73	13,565					100
Dubuque	F-148	41,322	14.90	206,788					84
Emmet	F-49				3.19	4,167			100
Fayette	F-59		7.48	42,652	7.48	7,372			100
Fayette	P-143	58	2.85		5.49	12,314			100
Fayette	P-144		5.36	51,366					100
Fayette	P-145	3,330							100
Fayette	P-164	61,531							100
Fayette	F-172	—3,216	1.59	11,304					100
Floyd	P-268	40,747	6.22	81,890					100
Floyd	P-269	38,885							100
Franklin	F-171	23,290	1.82	33,428	12.02	19,636			100
Franklin	P-261	75,489							100
Franklin	P-354		1.12	5,645	1.12	1,741			100
Greene	F-193	135,000	15.00	150,000					85
Greene	P-279	10,225	1.43	15,300					100
Greene	P-347		1.98	4,000			1.98	21,460	100
Greene	P-348	9,457	1.51	4,978			1.51	16,124	100

CONSTRUCTION DEPARTMENT

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SCHEDULE NO. 23—Continued

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IOWA STATE HIGHWAY COMMISSION

County	Project Number	Tiling	Grading		Graveling		Paving		Percent Completed
		Lineal Feet	Miles	Cubic Yards	Miles	Cubic Yards	Miles	Square Yards	
Sac.	P-304	18,494	.18	1,331	13.44	21,352			100
Scott	F- 50			250					100
Scott	F- 54		5.45	7,745			1.77	19,298	100
Scott	F- 55		12.74	33,729			5.45	57,584	100
Scott	F-114		.10	350			12.09	128,708	100
Scott	P-124	5,093					.10	1,100	100
Scott	F-135		.16	6,900					100
Scott	F-185		9.44	50,400			.16	1,440	72
Sioux	P-204	39,795					5.00	53,744	99
Sioux	P- 83		.80	5,525					100
Sioux	P-198				20.52	31,837			100
Sioux	P-223		13.20	175,602					100
Sioux	P-336				12.81	20,000			84
Sioux	P-209				5.88	9,315			93
Sioux	P-337			6,000	12.74	20,350			100
Sioux	P-314			24,000					100
Story	F- 72	3,795	.62						60
Story	P-231		1.85	32,779	1.25	1,945			100
Story	P-232				12.21	18,328			100
Story	P-282	9,660	1.07	9,600	1.07	1,666			100
Tama	B-133			30,904					100
Tama	F- 47		.21	29,794	23.38	35,386			100
Tama	F-176	14,679	6.78	85,003					100
Taylor	P-276	12,935	15.60	268,202					100
Union	F-149		12.74	243,950					84
Van Buren	F- 83		2.54	67,000					95
Wapello	F-165	3,455	15.51	231,082					67
Warren	F-159	1,100	8.75						86
Warren	P- 44	1,621							100
Warren	P-222	1,325							100
Warren	P-284								100
Washington	P-291				.10	148			4
Washington	F-167	14,442	7.77	118,881	1.77	2,763			100
Washington	F-182	6,044	4.08	75,560					87
Washington	P-253		3.30	73,661					81
Wayne	P-306				8.21	6,584			35
Wayne	F- 91		.37	55,682					54
Wayne	F-150		1.49	15,495					100

Webster	P-182	10,500			10.82	16,892			96
Webster	P-183				6.45	10,349			100
Webster	P-184	12,893	.67	3,000	2.14	3,332			66
Webster	B-207			17,000					100
Winnebago	P-120	3,796	1.39	14,016	1.80	4,339			100
Winnebago	F- 98		6.47	119,124					100
Winnebago	P-121	9,122	4.00	29,351					100
Woodbury	F- 2		31.22	301,787			17.68	193,433	98
Woodbury	F-136		.49	8,900					100
Woodbury	F-162		1.60	18,286			8.00	84,530	90
Woodbury	F-188		7.44	54,000					100
Worth	P-216	5,915	17.20	221,991	7.60	11,802			100
Wright	P-199	21,787	6.94	94,388					100
Wright	P-200	22,617							100
Wright	P-341	2,126	2.00	17,824	2.00	3,118			100
		2,161,741	837.45	11,248,766	443.79	665,528	100.09	1,066,039	

CONSTRUCTION DEPARTMENT

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## SCHEDULE NO. 24

PROJECTS COMPLETED AND RETIRED  
DECEMBER 1, 1922—DECEMBER 1, 1923

County	Number Project	Mileages	Nature of Work
Adams	F-152	13.77	Grading, draining
Allamakee	P-29	3.41	Grading, draining
Allamakee	P-305	1.27	Grading
Appanoose	P-76	10.48	Grading, draining
Audubon	F-52	17.47	Grading, draining
Bremer	P-191	9.93	Grading, draining
Bremer	P-228	10.17	Grading
Buchanan	P-66	6.52	Grading, draining
Buchanan	P-300	1.91	Grading, draining, paving
Butler	P-71	11.92	Grading, draining, graveling
Butler	F-85	15.73	Grading, draining, graveling
Calhoun	P-95	12.00	Grading, draining, graveling
Carroll	F-154	12.48	Grading, draining, graveling
Carroll	P-226	3.16	Grading
Cass	F-155	16.94	Grading
Cherokee	P-151	17.93	Grading, draining
Cherokee	P-249	5.50	Graveling
Cherokee	P-295	22.11	Graveling
Clarke	P-31	12.06	Grading, draining
Clayton	P-70	8.12	Grading
Clayton	P-346	.48	Grading
Clinton	P-125	16.67	Grading, draining
Crawford	P-8	15.42	Grading, draining
Dallas	P-195	10.85	Grading, draining, graveling
Dallas	P-196	9.03	Grading, graveling
Decatur	F-122	10.72	Grading, draining
Decatur	P-318	2.44	Grading, draining
Delaware	F-103	13.48	Grading, grading, graveling
Fayette	P-143	5.27	Draining, graveling
Fayette	P-144	5.36	Grading, draining
Fayette	P-145	1.75	Grading, draining
Fayette	F-164	8.60	Grading, draining
Fayette	F-172	13.59	Grading, draining
Floyd	F-157	2.58	Grading, draining, paving
Franklin	F-171	12.02	Grading, draining, graveling
Greene	P-270	1.45	Grading, draining
Greene	P-347	1.98	Grading, paving
Grundy	P-48	19.44	Grading, draining
Grundy	P-242	17.71	Graveling
Guthrie	F-145	9.77	Grading, draining
Hamilton	F-67	16.88	Grading, draining
Hamilton	F-254	1.45	Grading, draining, graveling
Hamilton	P-234	5.79	Graveling
Hancock	F-94	24.97	Grading, draining, paving
Harrison	P-34	3.07	Grading
Howard	F-93	11.50	Grading, draining, graveling
Humboldt	F-117	29.37	Grading, draining, graveling
Ia	P-101	13.86	Grading
Jackson	F-21	16.22	Grading, draining
Jasper	F-64	20.75	Grading, draining
Jasper	P-77	27.68	Grading, draining, graveling
Jefferson	P-59	.97	Grading
Johnson	F-120	6.83	Grading, draining
Johnson	P-286	.15	Grading, paving
Jones	P-310	3.93	Grading
Jones	F-86	24.33	Grading, draining
Kossuth	P-281	4.91	Graveling
Kossuth	F-66	35.75	Grading, draining, graveling
Kossuth	F-111	13.34	Grading, draining, graveling
Kossuth	P-140	11.26	Grading, draining, paving
Kossuth	P-270	1.80	Grading, paving
Linn	P-283	.12	Grading, paving
Linn	P-257	.47	Grading
Lucas	P-345	.07	Grading, paving
Lyon	F-63	17.60	Grading, draining
Lyon	P-85	17.19	Grading, draining
Lyon	P-146	12.53	Grading, draining
Lyon	P-292	12.34	Graveling
Lyon	P-307	12.53	Graveling
Marshall	P-240	13.06	Grading, draining

## SCHEDULE NO. 24—Continued

County	Number Project	Mileages	Nature of Work
Monona	P-38	31.03	Grading
O'Brien	P-60	11.29	Grading, draining
Osceola	P-197	16.19	Grading, draining
Osceola	P-296	5.31	Graveling
Plymouth	P-74	13.92	Grading
Pocahontas	P-339	12.59	Grading, graveling
Polk	P-115	4.10	Grading, draining
Polk	P-244	6.20	Grading, draining
Polk	P-280	.75	Grading, draining, graveling
Pottawattamie	P-21	14.85	Grading
Pottawattamie	P-22	20.18	Grading
Pottawattamie	P-92	9.94	Grading
Poweshiek	F-174	16.18	Grading, draining
Poweshiek	P-247	8.09	Grading
Sac	P-304	13.44	Grading, draining, graveling
Scott	P-50	10.49	Grading, draining, paving
Scott	P-124		Draining
Scott	P-204		Draining
Sioux	P-198	20.52	Graveling
Sioux	P-269	5.88	Graveling
Sioux	P-337	12.74	Graveling
Story	F-72	9.75	Grading, draining, graveling
Story	P-231	2.75	Grading, graveling
Story	P-232	25.05	Graveling
Story	P-282	1.07	Grading, draining, graveling
Taylor	F-81	18.44	Grading
Van Buren	F-60	11.92	Grading, draining
Warren	P-44	8.55	Grading, draining
Warren	P-222	1.77	Grading, draining
Warren	P-291	1.77	Graveling
Wayne	F-91	15.55	Grading, draining
Wayne	F-150	15.29	Grading, draining
Webster	P-64	16.98	Grading, draining
Webster	P-183	6.45	Graveling
Winnebago	P-120	15.76	Grading, draining, graveling
Woodbury	F-136	7.02	Grading, paving
Woodbury	F-162	7.65	Grading



## IOWA STATE HIGHWAY COMMISSION

## SCHEDULE NO. 25

## PROJECTS READY TO BE RETIRED

County	Number Project	Mileage	Nature of Work
Adair	P-123	9.84	Grading, draining
Albion	P-146	50	Grading, draining
Albion	P-27	11.00	Grading
Appanoose	P-251	12.79	Grading, draining
Black Hawk	P-321		Drainage
Black Hawk	P-167	14.50	Grading, draining, graveling
Butler	P-5	14.30	Grading, draining
Cedar	P-214	8.31	Grading, graveling
Cherokee	P-127	11.60	Grading, draining
Chickasaw	P-147	16.44	Grading, paving
Clinton	P-184	4.40	Grading, draining, paving
Clinton	P-152	12.18	Grading, draining
Davis	P-328	1.07	Grading, draining, graveling
Delaware	P-272	1.30	Grading, draining, paving
Des Moines	P-30	20.32	Grading, draining, graveling
Fayette	P-306	6.22	Grading, draining
Floyd	P-361		Drainage
Franklin	P-354	1.17	Grading, graveling
Franklin	P-145	16.95	Grading, draining
Greene	P-140	1.31	Grading, paving
Greene	P-125	25.83	Grading, draining, graveling
Grundy	P-79	21.75	Grading, draining
Hamilton	P-277		Drainage
Hamilton	P-278	5.96	Grading, draining, graveling
Hamilton	P-139	22.30	Grading, draining, graveling
Hancock	P-86	10.41	Grading, graveling
Howard	P-274	9.39	Graveling
Iowa	P-128	5.00	Grading, draining, draining
Jackson	P-48	8.32	Grading, graveling, draining
Lee	P-149	22.25	Grading, draining
Lee	P-160	7.40	Grading, draining, graveling
Madison	P-128	11.12	Grading, draining, graveling
Mitchell	P-27	28.35	Grading, draining, graveling
Muscatine	P-122	12.54	Grading, draining, paving
Polk	P-180	2.98	Grading, draining, paving
Polk	P-167	7.72	Grading, draining, paving
Polk	P-140	80	Grading, draining
Polk	P-123	9.29	Grading, draining
Ringgold	P-141	8.37	Grading
Ringgold	P-210	2.05	Grading, draining, graveling
Sac	P-35	28.25	Grading, draining, paving
Scott	P-135	3.89	Grading, draining, paving
Scott	P-165	10.18	Grading, paving
Scott	P-82	24.04	Grading, draining
Sioux	P-322		Graveling
Story	P-47	22.05	Grading, draining, graveling
Tama	P-129	17.85	Grading, draining
Tama	P-38	21.96	Grading, draining
Wapello	P-168	4.29	Grading, paving
Woodbury	P-258	23.10	Grading, draining, graveling
Worth	P-180	6.94	Grading, draining
Wright	P-300	9.47	Grading, draining
Wright	P-341	2.80	Grading, draining, graveling

## CONSTRUCTION DEPARTMENT

## SCHEDULE NO. 26

## CITY PRIMARY ROAD PAVING PROJECTS

County	City	Project Number	Miles	Square Yards	Date Completed
Butler	Wells Plains	C-6	1.44	16,303	1923
Story	Amoy	C-9	.75	11,013	1923
Story	Waukon	C-10	1.54	22,196	1923
Albion	Albion	C-11	.85	9,839	1923
Johnson	Iowa City	C-12	1.76	18,700	1923
Woodbury	Sioux City	C-13	1.72	35,231	1923
Des Moines	Burlington	C-15	.72	10,130	1923
Winterset	Decorah	C-18	1.44	21,805	1923
Des Moines	Burlington	C-19	1.21	12,818	1923
Carroll	Des Moines	C-21	2.20	28,476	1923
Polk	Carroll	C-22	.54	6,741	1923
Cerro Gordo	Clear Lake	C-23	1.00	16,013	1923
Wapello	Ottumwa	C-24	.31	3,840	1923
Lake	Chariton	C-25	.82	9,100	1923
Story	Nevada	C-26	1.21	26,600	1923
Delaware	Manchester	C-28	.98	19,000	1923
Calhoun	Lake City	C-27			
Total			18.75	256,350	



## IOWA STATE HIGHWAY COMMISSION

SCHEDULE NO. 27  
DETAIL OF ASSIGNMENT OF GOVERNMENT EQUIPMENT, DECEMBER 1, 1922-DECEMBER 1, 1923

County	Trucks		Tractors		Trailers, Wagons, Carrying Stock	Shop Machinery	Small Tools	General Supplies	Totals
	Number	Value	Number	Value					
Adair.....	1	\$ 1,500.00				\$ 500.00	137.70	\$ 212.00	\$ 2,350.00
Adams.....					500.00		64.00	130.00	700.00
Allamakee.....	1	1,500.00			500.00		218.20	325.20	2,474.50
Appanoose.....					500.00		96.00	110.00	200.00
Ashtabula.....					500.00		314.88	145.00	741.90
Black Hawk.....					1,000.00		63.00	370.30	683.28
Boone.....					500.00		148.35	100.00	1,223.90
Bremer.....					500.00		63.00	284.10	933.05
Buchanan.....	1	1,000.00					180.49	380.00	2,080.00
Bureau Vista.....	1	1,500.00			1,000.00		248.05	331.00	2,979.05
Butler.....	1	1,000.00			1,000.00		96.20	300.00	2,962.20
Calhoun.....	1	1,000.00			1,000.00	45.00	183.30	414.30	3,233.34
Cass.....	3	4,500.00			500.00	20.00	154.80	150.00	1,117.50
Cedar.....	2	3,000.00			500.00		79.25	147.70	805.70
Cerro Gordo.....	3	2,500.00			500.00	370.00	129.15	283.45	4,726.05
Cherokee.....					1,000.00	145.00	239.00	707.58	3,892.00
Chickasaw.....	3	2,500.00			1,000.00	120.00	248.47	306.13	4,243.05
Clarke.....					500.00		292.55	300.30	674.60
Clay.....					500.00		237.20	319.79	1,012.25
Clinton.....	1	500.00			500.00		107.80	201.40	1,356.90
Crawford.....					500.00		95.20	271.70	860.20
Dallas.....					500.00	100.00	78.00	221.80	899.80
Davis.....							90.00	144.45	244.35
Decatur.....						1,810.00	200.50	557.95	2,668.45
Delaware.....			1	2,000.00			63.00	130.00	2,190.00
Des Moines.....	2	2,200.00			1,000.00	115.00	822.55	238.58	3,076.13
Dickinson.....	1	1,500.00			500.00	535.00	254.95	389.91	2,690.80
Dubuque.....					1,000.00		134.50	241.33	2,875.80
Emmet.....					1,000.00		43.70	301.65	1,395.35
Fayette.....					1,000.00	500.00	335.00	430.05	2,772.04
Floyd.....	1	800.00			500.00	225.00	292.02	237.26	1,534.28
Franklin.....	1	1,500.00			500.00		202.27	234.05	1,796.32
Fremont.....							136.95	213.40	1,850.35

## CONSTRUCTION DEPARTMENT

Greene.....	1	1,500.00			100.00		255.50	364.65	2,220.15
Grundy.....	2	2,000.00			500.00		63.65	130.00	2,700.65
Guthrie.....					500.00		63.00	140.00	200.00
Hamilton.....					500.00		80.80	215.00	796.70
Hancock.....	2	2,500.00			500.00		292.75	253.65	3,450.40
Hardin.....	2	2,500.00			500.00		138.25	234.13	3,372.38
Harrison.....					500.00		62.00	130.00	690.00
Henry.....					500.00		144.64	263.55	448.19
Howard.....					500.00	20.00	174.16	231.80	911.00
Humboldt.....			1	2,025.00	500.00		98.75	207.00	3,962.35
Iowa.....					500.00		231.52	284.10	3,515.32
Jackson.....	1	1,000.00			500.00	65.00	233.82	472.58	2,624.40
Jasper.....	1	1,500.00			500.00		103.85	264.75	1,968.00
Jefferson.....	1	1,500.00			1,000.00	275.00	213.07	563.03	2,581.10
Johnson.....	1	1,500.00			1,000.00	125.00	274.37	264.25	3,163.32
Jones.....					500.00		121.75	296.00	327.65
Keokuk.....	1	1,500.00			500.00		151.85	555.96	2,707.81
Kossuth.....	2	2,000.00			500.00	500.00	294.92	315.50	3,610.42
Lee.....	1	1,500.00			1,000.00		275.62	408.58	2,182.58
Linn.....					1,000.00	485.00	275.62	433.98	2,194.50
Louis.....					500.00		103.00	63.00	100.00
Lucas.....					500.00		103.00	216.00	340.00
Lyons.....	2	2,000.00			500.00		95.20	245.00	2,340.70
Madison.....	2	4,500.00			500.00		229.10	556.00	5,490.00
Mahaska.....					500.00		140.00	108.40	890.00
Marion.....					1,000.00	225.00	264.30	326.34	1,225.61
Marshall.....			1	2,025.00	1,000.00	125.00	171.40	406.00	4,288.00
Mills.....					500.00		63.00	700.00	1,000.00
Mitchell.....					1,000.00	875.00	285.00	319.45	2,580.35
Monona.....					500.00		95.20	192.00	788.10
Monroe.....					500.00		62.00	140.00	293.90
Montgomery.....					500.00		108.70	196.00	895.00
Muscatine.....	2	1,250.00			1,000.00	800.00	274.20	488.45	3,212.25
O'Brien.....					500.00		136.80	130.00	777.70
Oscola.....					1,000.00		116.85	218.85	1,335.65
Page.....	1	1,500.00			500.00	625.00	125.20	335.50	2,665.70
Palo Alto.....					500.00		63.00	150.00	210.00
Plymouth.....					500.00		95.20	192.00	788.10
Pocahontas.....					1,000.00	550.00	165.20	196.00	1,292.10
Polk.....					1,000.00	20.00	216.35	370.42	1,736.96
Pottawattamie.....					100.00	290.00	64.05	278.80	1,261.75
Poweshiek.....					500.00	20.00	290.55	393.87	694.42
Ringgold.....					1,000.00		63.00	140.00	706.00
Sac.....					500.00		212.25	181.85	1,477.10
Scott.....					1,000.00	60.00	63.00	136.00	600.00
Shelby.....	1	1,500.00			500.00		196.70	210.25	1,690.25
Sioux.....					1,000.00		196.30	244.80	1,441.10
Story.....	1	500.00			2,500.00		166.95	432.80	3,322.75



County	Trucks		Tractors		Trailers, Wagons, Carts, Roll- ing Stock	Shop Machinery	Small Tools	General Supplies	Totals
	Number	Value	Number	Value					
Tama					500.00		63.00	133.90	693.90
Taylor							63.00	140.90	203.90
Union					500.00		63.00	140.90	703.90
Van Buren	1	500.00				1,855.00	310.38	\$86.08	3,531.46
Wapello					500.00		63.00	140.90	703.90
Warren			1	2,000.00	500.00		63.00	140.90	2,703.90
Washington	1	1,500.00			1,000.00		177.70	230.15	1,916.85
Wayne	1	1,000.00			1,000.00		430.90	436.10	1,867.00
Webster							271.10	282.15	2,533.25
Winnebago					500.00		123.10	193.00	718.10
Winneshiek					1,000.00	185.00	139.41	194.40	1,018.81
Woodbury	1	1,500.00			500.00	100.00	497.83	520.05	3,428.48
Wright							103.30	157.40	260.70
Board of Control and state institutions					500.00	14,900.00	2,627.72	28,864.44	53,042.16
Park Commission	6	6,000.00					8.63	317.31	35.34
State University						408.25			408.25
State College						1,305.00			3,158.43
Total		\$ 65,750.00		\$ 9,250.00	\$ 47,000.00	\$ 20,281.25	\$ 19,802.72	\$ 57,462.83	\$ 229,236.80

## SCHEDULE NO. 28

GOVERNMENT EQUIPMENT RECEIVED, DECEMBER 1, 1922—DECEMBER 1, 1923

Description	Quantity	Value
Trucks in serviceable condition	12	\$ 13,550.00
Tractors—5 ton Holt	3	6,000.00
Cars—Dodge touring, serviceable	13	4,550.00
Cars—Dodge touring, unserviceable	3	525.00
Cars—Cadillac	1	800.00
Cars—White reconnaissance	4	2,000.00
Cranes, derricks, hoists and conveyors	4	1,640.00
Wagons, trailers and other rolling equipment	12	2,025.00
Pumps, gas engines and concrete mixers	67	2,225.00
Shop machines—lathes and grinders	151	43,490.00
Motors and dynamos	74	15,025.00
Truck and car repair parts		148.51
Tractor repair parts		150.00
Pipe and pipe fittings		526.75
Tents and tarpaulins		11,755.00
Canvas	154,403 yds.	46,361.55
Rope, cord and cable		9,320.95
Nails	2,350 lbs.	98.00
Staples	21 tons	17.60
Building materials		1,128.70
Electric equipment and supplies		7,207.99
Oils and greases		2,069.85
Lamps, lanterns and supplies		500.10
Steel and iron		3,453.83
Harness and leather goods		5,191.80
Small tools—carpenter, blacksmith, etc.		67,100.00
Wagon parts		13,205.75
Unclassified		61,788.37
		\$ 321,853.75



## SCHEDULE NO. 29

BRIDGES AND CULVERTS CONSTRUCTED  
DECEMBER 1, 1922—DECEMBER 1, 1923

County	Project number	Number of Structures in Project							Per cent completed	Number of Structures completed previous to 1923	Number of structures completed in 1923	Number of structures completed to date
		Concrete culvert (box, cir. arch and pipe)	Headwalls and culverts lengthened	Concrete slab bridges, arch bridges, thru girders, deck girders	Concrete Abutments		Misc. permanent construction and retaining walls	Total				
					I-beam spans, steel girder	Pony truss, high steel truss, deck truss						
Adair.....	B-221	23				1		24	100.00		24	24
Adair.....	B-226					1		1				
Adair.....	B-248	48						52	7.50		7	7
Adams.....	B-109	49				1		54	100.00	52	2	54
Allamakee.....	B-141							2	67.00			
Allamakee.....	B-156						1	1	100.00		1	1
Allamakee.....	B-161	40	2			1		43	100.00	20	14	43
Allamakee.....	B-175	54	3	1		1	1	60	100.00	57	3	60
Allamakee.....	B-227	5						5	80.00		4	4
Appanoose.....	B-183	37	2					41	100.00		41	41
Audubon.....	B-249						1	1	10.00			
Black Hawk.....	B-77	13	11			2		26	100.00	14	12	26
Black Hawk.....	B-125	14	2	1			1	18	100.00	1	17	18
Black Hawk.....	B-126	9	2			1	2	14	41.00		12	12
Bremer.....	B-208	10	6			1	1	18	94.00		17	17
Bremer.....	B-236	7	5					12	33.00		6	6
Buchanan.....	B-140	3						3	100.00		3	3
Butler.....	B-72						1	1	100.00		1	1
Butler.....	B-203	7	13			1	1	22	100.00	21	1	22
Carroll.....	B-113	7	1					8	100.00	5	3	8
Carroll.....	B-152	24	3				1	28	100.00	26	2	28
Cass.....	B-160	50	3				2	57	100.00	56	1	57
Cedar.....	B-204	23	11			2		36	100.00	26	10	36
Cedar.....	B-205	17	9	1		2	1	30	100.00	14	16	30
Cedar.....	B-238	9	2					11	100.00		11	11
Cedar.....	B-239	43	21			1		65	100.00	65	65	65
Cherokee.....	B-170	44	5					49	100.00	46	3	49

Cherokee	B-182	14	1		3	2		20	90.00		19	19
Cherokee	B-261	16	4					20	12.00		4	4
Clarke	B-184	38	8					46	100.00		46	46
Clayton	B-85	34	4				1	39	100.00	34	34	34
Clayton	B-167	20	2					22	100.00	20	22	22
Clay	B-191	14	4				1	19	50.00		10	10
Clay	B-193	20	3					23				
Clinton	B-210		2					2				
Clinton	B-257	41	5					46	65.00		29	29
Crawford	B-255	8	8		1			17	100.00		17	17
Crawford	B-259		11			1		12	54.00		11	11
Davis	B-116	30	5			1		36	100.00	25	11	36
Davis	B-131	42	5		1			48	85.00		36	36
Decatur	B-33	34	4				2	40	100.00	34	6	40
Decatur	B-145	9						9	100.00		9	9
Delaware	B-136	46	13	1	3	3		66	97.00		63	63
Dubuque	B-137	47	19			1		58	100.00		58	58
Dubuque	B-178	4		1				5	100.00	4	1	5
Fayette	B-189					2		2	100.00		2	2
Guthrie	B-78	76	2		1	2	1	82	100.00	63	19	82
Hamilton	B-9	12		1				13	100.00	11	2	13
Hamilton	B-41	26	4	1		2		33	100.00	30	3	33
Hamilton	B-103	6	1					7	100.00		7	7
Hamilton	B-104	3		1				4	100.00		4	4
Hamilton	B-117	2				1		3	100.00	1	2	3
Harrison	B-88	2			1			3	100.00		3	3
Henry	B-50	20						20	68.00		14	14
Henry	B-151					1		1	25.00			
Iowa	B-19	62	8			1		71	100.00	70	1	71
Jackson	B-59	30	6			3		39	100.00		39	39
Jackson	B-70					1		1	100.00		1	1
Jasper	B-34	59	12		2	1		74	100.00	55	19	74
Jasper	B-150					2		2	100.00		2	2
Jasper	B-168	14	2		1			17	100.00	16	1	17
Jefferson	B-107	66	7	1	2			76	100.00	10	66	76
Jones	B-38	50	2					55	100.00	51	4	55
Jones	B-209	34	6		5			46	38.00		23	23
Keokuk	B-148	12	2			1		15	100.00	13	2	15
Keokuk	B-149	63	3					66	100.00		66	66
Kossuth	B-138	11	2					13	100.00	8	5	13
Kossuth	B-256	3						3	100.00		3	3
Lee	B-100	60	2					62	100.00	4	58	62
Louisia	B-111	25	3					28	89.00		24	24
Louisia	B-112	9				1		10	60.00		8	8
Lyon	B-127	30	11			1		42	49.00		26	26
Lyon	B-179	18	2			2		22	100.00	20	2	22
Mahaska	B-122	37			1		1	39	100.00	22	17	39
Mahaska	B-129	36	4		1	3		44	100.00	25	19	44
Mahaska	B-70					1		1	45.00			



County	Project number	Number of Structures in Project						Per cent completed	Number of struc- tures completed previous to 1923	Number of struc- tures completed in 1923	Number of struc- tures completed to date	
		Concrete culvert (box, cfr, arch and pipe)	Headwalls and cul- verts lengthened	Concrete— slab bridges, thru bridges, thru girders, deck girders	Concrete Abutments		Miscel. permanent construction and retaining walls					Total
					I-beam spans, steel girder	Pony truss, high steel truss, deck truss						
Marion	B-151	40	3					43	100.00		43	
Marshall	B-159	54	4	1				60	100.00		60	
Monona	B-48	97	8	2	2	1	1	117	93.00	89	111	
Monona	B-171	12	1	3				16	61.00		12	
Monroe	B-28	18						20	100.00	15	26	
Monroe	B-201	37			1			37	100.00		37	
Montgomery	B-105	6						6	100.00	5	6	
Muscatine	B-49	42	3			1		50	100.00	49	50	
O'Brien	B-197	15	6				3	24	100.00	19	24	
O'Brien	B-198							1	100.00		1	
Osceola	B-219	8	8			1		16	100.00		16	
Osceola	B-260						1	1	96.00			
Page	B-250	5	1		3	1		10	55.00		5	
Page	B-251				3			3	5.00			
Plymouth	B-81	57	3		3	2		65	93.00	63	64	
Plymouth	B-212	43	2		2	1		48	98.00	9	46	
Plymouth	B-262	8				1		9				
Plymouth	B-192	57	6			5		68	79.00	62	62	
Pocahontas	B-218	1				1		2	61.00		1	
Pottawattamie	B-95	54	4		3	2		63	100.00	56	63	
Pottawattamie	B-96	36	5		5	5		52	100.00	45	52	
Pottawattamie	B-97	23	4			2	1	29	100.00	28	29	
Poweshiek	B-134	24	2			1		27	72.00	16	26	
Ringgold	B-79	34	3			4		41	100.00	39	41	
Ringgold	B-123	27	3			2		32	95.00		31	
Ringgold	B-124	25	3					28	100.00		28	
Sioux	B-181	8	2					10	100.00	4	10	
Story	B-31	9	10			1		20	100.00	19	20	
Story	B-135	6	7	2				15	100.00	6	15	
Tama	B-214	47	12		4	3		66	100.00	66	66	
Taylor	B-121	32	9	2		2		45	100.00	42	45	

Taylor	B-213	69	6			3		78	100.00	16	78
Union	B-42	58	2		1			61	100.00	39	61
Van Buren	B-132	70	3	1	1	1		76	100.00	62	76
Wapello	B-118	52	7			2		61	100.00	53	61
Warren	B-93	1						1	100.00		1
Warren	B-120	30	4					34	20.00	9	9
Warren	B-242	11	1			1		13	10.00		
Washington	B-86	39	3	1		1		44	90.00	23	43
Washington	B-153	38	4	2		1		45	98.00		44
Wayne	B-164	45	5			2		52	100.00	51	52
Wayne	B-165	26	2			1		29	100.00	22	29
Winnebiek	B-146	35	10		1	1		47	100.00	20	47
Webster	B-207						1-Via.	1	100.00		1
Winnebiek	B-162	45	14			1		60	100.00	46	60
Woodbury	B-240	41	6	1	1	1		50	83.00		47
Worth	B-98	9	15		1	4		29	89.00	24	27
Wright	B-90	2	7		1			10	100.00		10
Total		3115	473	24	70	127	11	3,819		1,723	3,538



## CHAPTER IX

### Department of Road Maintenance

The maintenance policy of the Commission is one of cooperation with the counties in an endeavor to keep every mile of the 6,646 miles of Primary road smooth and safe for travel at all times.

#### Organization.

The primary maintenance work has increased to such an extent that this year it was found necessary to provide additional help in the Maintenance Department. On May 1st, T. R. Perry, Assistant District Engineer, District No. 2, was transferred to the Ames office and became Assistant Maintenance Engineer.

#### Complaints.

During the past year twenty-two complaints were filed with the Commission. The complaints were divided among the different road systems as follows:

Primary system .....	2 complaints
County system .....	4 complaints
Township system .....	16 complaints

All the primary complaints have been adjusted, and only one county and four township complaints are now pending. This makes a total of seventeen complaints investigated and adjusted. A comparison of the number of complaints filed during the last three years follows:

1921 .....	56 complaints
1922 .....	43 complaints
1923 .....	22 complaints

The total number of complaints filed with the Commission since 1913 is one thousand sixty-seven.

#### Maintenance Budget.

On December 4, 1922 the Commission adopted a temporary budget to provide for maintenance until the adoption of the permanent budget. The temporary budget amounted to \$261,000. The final 1923 maintenance program was definitely outlined early in the year by the various county engineers and district engineers. These estimates were revised and submitted to the Commission by the maintenance engineer.

On March 6th, the final budget was passed, the total including the December 1, 1922 balances and the temporary budget was \$2,682,386. It has since been found necessary to make increases in the budget for thirty-two counties. Schedule No. 30 shows the budget including the December 1, 1922 balance and all additions to December 1, 1923. The total revised budget is \$2,830,800.

Note:—For a statement of maintenance expenditures from the above budget see Schedules No. 75 and 76, Chapter XIII. The following table shows the comparative expenditures for maintenance for the last three years.

Year	Miles Maintained	Total Cost of Maintenance	Average Cost Per Mile
December 1, 1920-December 1, 1921 .....	6,616.0	\$2,264,682	\$ 342
December 1, 1921-December 1, 1922 .....	6,615.3	2,444,665	370
December 1, 1922-December 1, 1923 .....	6,646.6	2,420,900	364

#### Primary Road Condition Map.

Annually the Commission collects the data for and prepares a map showing the condition of the primary road system on December 1. The roads are classified as follows: First, paving; second, gravel; third, built to permanent grade; and, fourth, not built. The mileage of the primary road system in each of the above named classes was on December 1, 1923 as follows:

Paving .....	419.1 miles
Gravel .....	1,888.4 miles
Built to permanent grade .....	2,001.2 miles
Not built .....	2,337.9 miles

These mileages do not include any work partially completed or work in towns or cities. A copy of the condition map is appended hereto. A comparison of this map with the condition map filed with the 1922 report shows graphically the location and the extent of the construction work accomplished during the year. Schedule No. 31 shows the condition of the primary road system by counties on December 1, 1923.

#### County Use of Government Trucks.

In order to determine what use is being made of the government trucks which have been assigned the counties, a blank was sent to each county upon which they reported the work done in 1923 by each of the trucks assigned them. These reports show that the total



number of trucks assigned was 577 and that the work was distributed as follows:

Primary Road Work:	
Construction	189
Maintenance	8
Secondary Road Work:	
Construction	8
Maintenance	86
Bridge Work	181
Trucks not used	105

Last year fifty-five trucks were reported as not used. Twenty-one of these were unused because the counties had no work for them and thirty-four were not used because they were unserviceable. During 1923 the thirty-four unserviceable trucks were examined by a mechanic from our shop. He found six of these trucks so badly worn that they were not worth repairing. They have been returned to Ames and dismantled. The other twenty-eight trucks were all worth repairing and arrangements were made with the counties for putting them in shape. Many of them have been returned to Ames and have been given thorough overhauling in our shop.

This year's report shows sixty-one trucks to be unserviceable. These trucks will be examined by a mechanic some time during the year.

#### Maintenance Letters.

During the year four maintenance letters were sent to the county engineers calling their attention to particular maintenance matters that needed immediate attention. The first letter was sent in March and called their attention to the necessity of keeping the primary roads open for traffic. A plan for a temporary plank bridge to bridge over mud holes was enclosed with this letter. In June, a second letter was sent out calling the attention of the local officials to the need of weed cutting along the highways. In August, a letter of instructions for seeding cut and fill slopes was sent to all county engineers and November 1, a fourth letter was sent to the county engineers asking them to put on a general clean up campaign to get all of the primary roads in shape for the winter.

#### Contract Approval.

Most of the maintenance work on the primary system is being done by day labor, but some work has been let by contract by the counties. Contracts have been approved by the Commission for \$179,236 of maintenance work.

### SCHEDULE NO. 30

PRIMARY ROAD MAINTENANCE BUDGET, DECEMBER 1, 1922-DECEMBER 1, 1923.

County	Mileage	Budget	County	Mileage	Budget
Adair	56.5	\$27,000	Jefferson	46.8	\$24,300
Adams	35.1	15,000	Johnson	73.9	28,500
Albany	84.5	22,500	Jones	55.0	21,000
Appanoose	57.2	26,500	Kekukuk	79.2	28,500
Arthur	46.6	23,500	Kossuth	89.2	56,000
Benton	90.3	30,000	Lee	84.6	36,000
Black Hawk	76.4	35,000	Linn	98.7	40,000
Bloom	77.9	28,000	Louis	85.1	32,500
Bower	71.6	25,000	Lucas	36.0	12,500
Buchanan	46.6	16,000	Lyons	45.7	19,000
Bureau	66.6	40,000	Madison	54.6	22,500
Butler	40.5	35,000	Mathews	96.4	33,000
Calhoun	72.8	31,000	Marion	93.3	41,000
Carroll	70.9	26,500	Marshall	48.8	21,000
Cass	55.9	27,500	Mills	49.9	22,000
Cedar	73.8	19,000	Mitchell	90.5	49,000
Cherokee	77.2	30,500	Monona	76.7	17,500
Chickasaw	46.1	32,000	Monroe	58.3	25,000
Clarke	44.6	30,000	Montgomery	42.2	39,000
Clay	53.6	35,000	Muscatine	80.9	39,000
Clayton	105.2	22,000	O'Brien	74.3	15,000
Clinton	89.9	28,500	Oceola	41.5	9,000
Crawford	81.8	25,500	Page	38.7	23,500
Dallas	87.7	32,000	Palo Alto	49.9	19,000
Davis	47.4	17,500	Plymouth	118.9	33,000
Decatur	53.1	25,500	Pocahontas	65.3	41,500
Delaware	48.3	22,000	Polk	52.3	25,000
Des Moines	38.9	15,000	Pottawattamie	143.1	75,000
Dickinson	41.4	32,000	Poweshiek	66.8	23,500
Dubuo	81.4	43,500	Ringgold	91.0	42,000
Emmet	41.8	28,000	Sac	91.3	69,000
Fayette	54.4	25,000	Scott	72.2	31,000
Floyd	67.3	22,000	Seely	90.5	29,000
Franklin	40.5	30,000	Sioux	73.3	15,000
Greene	50.9	25,000	Story	96.3	50,500
Grundy	72.4	47,500	Tama	70.1	22,500
Hamilton	68.2	25,500	Taylor	49.3	17,000
Hancock	58.7	17,000	Union	51.8	39,000
Hardin	62.9	30,000	Van Buren	46.5	29,500
Harrison	79.4	28,500	Wapello	42.7	25,000
Henry	46.2	17,500	Warren	53.4	34,500
Howard	50.5	15,000	Washington	87.2	38,114
Humboldt	41.5	30,000	Wayne	61.8	22,500
Ia	49.4	12,000	Webster	85.0	61,000
Iowa	66.9	41,000	Winnebago	48.9	24,500
Jackson	77.2	25,000	Winnechick	81.6	25,500
Jasper	87.6	44,500	Woodbury	125.1	32,000
			Worth	46.0	25,000
			Wright	61.2	25,000
			Total	6646.6	\$2,830,800



**SCHEDULE NO. 31**

SHOWING CONSTRUCTION WORK COMPLETED IN 1923 AND CONDITION PRIMARY ROAD SYSTEM NOVEMBER 30, 1923.

County	No. Miles Constructed 1923			Condition Primary Road System November 30, 1923				
	Built to Permanent Grade	Surfaced With Gravel Macadam or Sand-clay	Paved	Earth Road Not Built	Earth Road Built to Permanent Grade	Surfaced With Gravel Macadam or Sand-clay	Paved	Total Miles in Primary System
Adair.....	5.40			28.5	28.0			56.5
Adams.....	5.96			11.4	23.7			35.1
Allamakee.....	18.96			62.6	21.9			84.5
Appanoose.....	8.48			30.3	26.9			57.2
Audubon.....				29.0	17.6			46.6
Benton.....				68.8	11.8	.1	9.6	90.3
Black Hawk.....	21.77		9.57	30.2	17.0	8.0	21.2	76.4
Boone.....				13.5		64.4		77.9
Bremer.....	2.25	3.94		51.6	9.3	10.7		71.6
Buchanan.....	1.91		1.91	25.0	6.5		15.1	46.6
Buena Vista.....	2.54	1.82				66.6		66.6
Butler.....	3.64	15.02		25.9		43.6		69.5
Calhoun.....		1.00				72.8		72.8
Carroll.....	5.18	9.46		14.0	23.8	33.1		70.9
Cass.....				53.4	20.1		.5	74.0
Cedar.....	31.91			30.9	45.0			75.9
Cerro Gordo.....	12.00	6.23		2.9	6.0	11.7	33.2	53.8
Cherokee.....	6.23	35.82		16.9	14.4	45.4	.5	77.2
Chickasaw.....	1.18			4.2	14.1	27.8		46.1
Clarke.....	7.66			17.0	27.6			44.6
Clay.....	3.79	6.48				53.6		53.6
Clayton.....	13.46	13.92		61.5	29.6	14.1		105.2
Clinton.....	16.57		9.92	35.6	7.9	8.1	38.3	89.9
Crawford.....	6.59				81.8			81.8
Dallas.....	6.54	10.85		21.1	8.0	58.6		87.7
Davis.....	20.23			15.6	31.8			47.4
Decatur.....	5.41			27.1	26.0			53.1
Delaware.....	19.27	11.20		2.7	17.8	27.8		48.3
Des Moines.....	1.50		1.50	28.2		2.0	8.7	38.9
Dickinson.....						36.6	4.8	41.4
Dubuque.....	15.63			11.2	28.7	38.0	3.5	81.4
Emmet.....		3.19				41.8		41.8
Fayette.....	17.28	12.97		21.2	31.2	42.0		94.4
Floyd.....	6.22			36.2	5.9	9.2	16.0	67.3

Franklin.....	2.94	13.14				40.5		40.5
Fremont.....				30.9	19.1			50.0
Greene.....	19.92		3.49	20.0	16.9	29.0	7.5	73.4
Grundy.....	11.38	4.71		6.8	32.7	25.1		64.6
Guthrie.....	6.16			44.7	23.5	3.7		71.9
Hamilton.....	10.92	26.52		6.9	6.0	55.4		68.3
Hancock.....	11.07	4.60		1.0	17.4	16.0	24.3	58.7
Hardin.....		4.96		.7		62.2		62.9
Harrison.....	0.65			60.7	18.7			79.4
Henry.....	1.31			24.1	22.1			46.2
Howard.....		10.41		17.2	1.0	32.3		50.5
Humboldt.....	0.22	0.82				41.5		41.5
Ida.....		9.29				20.1		49.4
Iowa.....	.12			16.9	12.4			66.9
Jackson.....	8.49			40.0	26.9			77.2
Jasper.....	3.06	19.38		40.3	30.7	6.2		77.2
Jefferson.....	13.83			29.8	5.4	52.4		87.6
Johnson.....	14.76		0.15	7.2	39.6			46.8
Jones.....	7.61	1.48		18.3	51.8		3.8	73.9
Keokuk.....	15.58			22.9	24.0	8.1		55.0
Kossuth.....	2.90	.87	1.86	47.2	32.0			79.2
Lee.....	23.88	.33				76.7	12.5	89.2
Linn.....	.07		.07	47.8	23.6	13.2		84.6
Louisa.....	8.67			65.8	12.4	12.1	8.4	98.7
Lucas.....				18.4	32.4		1.3	52.1
Lyon.....	13.70	29.70		38.4	17.6			56.0
Madison.....	1.87			4.7	10.7	50.3		65.7
Mahaska.....	15.17			39.8	14.8			54.6
Marion.....	9.75			45.7	40.7			86.4
Marshall.....	13.06			59.0	34.3			93.3
Mills.....				3.5	39.3		6.0	48.8
Mitchell.....	7.13	12.73		36.8	13.1			49.9
Monona.....	27.66			15.7		44.8		60.5
Monroe.....	9.02			35.7	40.5			76.2
Montgomery.....				34.8	23.5			58.3
Muscatine.....		0.01		35.8	15.9	.5		52.2
O'Brien.....				29.8	41.2	9.0	.9	80.9
Oscola.....	10.55	11.61		28.3	23.5		22.5	74.3
Page.....	13.65				2.5	39.0		41.5
Palo Alto.....				27.6	31.1			58.7
Plymouth.....	26.61	0.90		2.0	20.5	15.4	11.0	48.9
Pocahontas.....	2.04	12.50		45.4	72.0	1.5		118.9
Polk.....	20.20	0.75	21.88			63.3		65.3
Pottawattamie.....	3.24				7.0	28.3	55.7	91.0
Poweshiek.....	11.64			95.4	45.3	1.3	1.1	143.1
Ringgold.....	11.99			27.1	39.7			66.8
Sac.....	5.23	18.18		20.8	31.5			52.3
Scott.....	27.89		24.66			91.3		91.3
Shelby.....				1.9	6.0	9.8	54.5	72.2
				27.2	23.3			50.5



SCHEDULE NO. 31—Continued

County	No. Miles Constructed 1922				Condition Primary Road System November 30, 1922			
	Earth Road Built to Permanent Grade	Surface With Gravel Macadam or Sand-clay	Paved	Earth Road Not Built to Permanent Grade	Earth Road Built to Permanent Grade	Surface With Gravel Macadam or Sand-clay	Paved	Total Miles in Primary System
Adair	11.05	51.05		2.9	14.2	10.4	4.3	72.2
Albany	2.95	14.53		10.7	28.3	66.3		88.2
Ashtabula	22.29	23.28		34.8	17.0	25.1		79.1
Benett	1.54			19.2	22.3			39.3
Van Buren	15.54			19.2	22.3			46.5
Wadena	8.12	1.87		12.1	28.9	1.6		42.7
Washington	15.15	8.53		47.2	31.5	8.3		97.2
Wayne	1.89	10.11		21.4	39.4			61.6
Winnebago	1.29	1.80		1.0	4.0	41.0		48.0
Winthrop	10.47			32.0	44.0			88.0
Winneshiek	17.39	7.60	25.08	17.4	15.5	17.1	10.7	135.1
Wright	8.54	2.00		12.2	16.4	27.6		63.2
Total	807.45	442.79	100.00	2,357.9	2,001.2	1,868.4	419.1	6,468.6

## CHAPTER X

## Work of District Engineers and Assistant District Engineers

The total time spent by the district engineers and assistant district engineers in the various classes of work during the last three years is shown in the table below. It will be observed that in 1923 much less time was spent in preliminary engineering work than in the two previous years. When the Primary Road law was first passed a large amount of preliminary engineering was necessary. Surveys and plans had to be prepared for both current construction and for future construction. The slack has now been taken up and surveys and plans are prepared well in advance of the construction.

The table shows a slight increase in time spent in Construction Engineering and a decided increase in days spent on Maintenance work during 1923. The total number of days is less than the two previous years due to the fact that two districts were without assistant district engineers for about one-half of the time.

DAYS SPENT BY DISTRICT ENGINEERS AND ASSISTANT DISTRICT ENGINEERS ON VARIOUS CLASSES OF WORK

	1921	1922	1923
Primary System:			
Preliminary engineering, road work.....	1,093.5	1,169.5	641.0
Construction engineering, road work.....	1,024.0	1,017.3	1,111.0
Preliminary engineering, bridge work.....	278.0	272.0	163.95
Construction engineering, bridge work.....	75.5	153.8	141.75
Alterations in primary road system.....	22.0	31.8	24.50
Maintenance.....	330.5	445.2	609.0
Railroad crossings.....	68.0	67.1	58.75
Secondary System:			
Preliminary engineering, road work.....	80.0	86.6	38.25
Construction engineering, road work.....	17.0	58.6	39.25
Preliminary engineering, bridge work.....	196.0	78.0	85.75
Construction engineering, bridge work.....	25.0	50.3	53.75
Alterations in county road system.....	25.5	41.5	19.50
Maintenance.....	18.0	10.5	13.0
Railroad crossings.....	5.5	5.0	6.0
General administrative work.....	1,612.0	1,794.3	1,969.25
Total.....	4,531.5	5,274.7	4,639.00

## Organization.

No changes have been made in the personnel of the district engineers during the past year but several changes have been made in the assistants. On May 1, H. O. Hicock was transferred from Assistant District Engineer in District No. 1 to the Right-of-Way Division, and L. L. Clement was transferred from the Railroad Crossing Department to Assistant District Engineer, District No.



1. On May 1, T. R. Perry, Assistant District Engineer, District No. 2, was transferred to the Maintenance Department and no successor has been appointed. On June 18 Assistant District Engineer L. S. Gates, District No. 6, resigned. C. R. Livingston, Resident Engineer in Scott county, has been appointed as his successor and will take up the duties of the office as soon as this year's work in Scott county is completed.

Schedule No. 32 shows the district engineers' and the assistant district engineers' time in each district, classified as to kind of work. Schedule No. 33 classifies the same time by counties.

## SCHEDULE NO. 32

## DISTRIBUTION OF DISTRICT ENGINEERS' AND ASSISTANT DISTRICT ENGINEERS' TIME ACCORDING TO CLASS OF WORK

District number	1 W. F. Beard	2 R. R. Zack	3 E. W. Dunn	4 L. M. Martin	5 J. S. Morrison
District engineer	J. L. Clement	T. R. Perry	C. D. Capel	C. D. Weller	W. Smith
Assistant district engineer					
Primary System:					
Preliminary engineering, road work	60.75	24.25	106.5	43.0	164.0
Construction engineering, road work	130.0	82.0	199.25	130.0	156.5
Preliminary engineering, bridge work	6.5	3.0	30.75	15.0	28.0
Construction engineering, bridge work	17.0	10.0	38.25	7.0	18.5
Alterations in primary road system	1.5	1.0	2.5	2.0	4.0
Maintenance	75.5	90.75	29.50	101.5	62.0
Railroad crossings	5.5	.5	6.25	15.0	9.0
Secondary System:					
Preliminary engineering, road work	38.75	9.0	15.5	1.5	6.5
Construction engineering, road work	4.25	6.75	1.75	3.0	1.0
Preliminary engineering, bridge work	12.75	3.5	32.5	3.0	5.5
Construction engineering, bridge work	4.25	17.5	5.5	3.5	7.5
Alterations in county road system	1.5	1.5	2.5	3.5	2.5
Maintenance	1.0	5.25	3.25		
Railroad crossings	1.5	2.0			1.0
General administrative work	292.25	152.5	112.5	192.0	112.0
Total	540.0	411.5	506.5	536.0	509.0
District number	6	7	8	9	
District engineer	W. M. Lee	J. A. Paulsen	J. F. Reynolds	W. O. Price	Totals
Assistant district engineer	L. S. Gates	L. E. Goodrich	A. A. Baustian	C. G. Gould	
Primary System:					
Preliminary engineering, road work	52.5	54.5	81.5	81.0	641.0
Construction engineering, road work	82.5	119.75	71.0	140.0	1,132.0
Preliminary engineering, bridge work	28.5	6.5	18.0	37.0	162.25
Construction engineering, bridge work	6.5	7.5	22.5	14.5	141.75
Alterations in primary road system	.5	.5	8.0	4.5	24.50
Maintenance	50.5	79.25	101.0	31.0	909.0
Railroad crossings	2.5	6.5	10.0	5.5	56.75
Secondary System:					
Preliminary engineering, road work	4.0	13.5	19.5		38.25
Construction engineering, road work	2.5	1.0	1.5		19.25
Preliminary engineering, bridge work	5.5	13.5	10.5	1.0	30.75
Construction engineering, bridge work	2.0	11.0	1.5	1.0	52.75
Alterations in county road system	.5		2.5	1.5	10.50
Maintenance	.5	1.0	2.5	5	11.00
Railroad crossings			1.0	.5	6.00
General administrative work	215.0	225.0	178.5	213.5	1,802.25
Total	432.5	529.5	385.5	521.5	4,820.0

## SCHEDULE NO. 33

## DISTRIBUTION OF DISTRICT ENGINEERS' AND ASSISTANT ENGINEERS' TIME BY COUNTIES

County	Days	County	Days
Adair	39.0	Johnson	21.5
Adams	30.0	Jones	28.0
Albany	36.5	Keokuk	42.3
Alamogordo	21.0	Kossuth	28.5
Appanoose	25.5	Lee	22.5
Ashtabula	13.0	Linn	23.0
Benton	46.5	Louisa	21.5
Black Hawk	27.25	Lucas	19.5
Boone	36.5	Lyon	30.0
Bremser	30.5	Madison	15.0
Buchanan	40.5	Mahaska	64.5
Butler	19.25	Marion	30.0
Calhoun	22.0	Marshall	30.25
Carroll	33.25	Mills	16.0
Cass	38.0	Mitchell	16.25
Cedar	29.0	Monona	69.0
Cerro Gordo	12.25	Monroe	41.0
Cherokee	38.25	Montgomery	17.5
Chickasaw	10.75	Muscatine	16.75
Clarke	29.0	O'Brien	18.5
Clay	58.0	Osceola	18.5
Clayton	24.0	Page	49.0
Crawford	29.0	Palo Alto	40.0
Dallas	27.25	Plymouth	56.0
Davis	28.5	Pocahontas	36.5
De Witt	44.0	Polk	78.25
Delaware	21.5	Pottawattamie	36.5
Des Moines	22.5	Poweshiek	21.5
Dickinson	25.5	Ringgold	21.5
Dodge	42.5	Sac	45.0
Dubois	23.0	Scott	28.5
Dumek	26.0	Shelby	18.5
Fayette	26.0	Sioux	67.75
Floyd	38.5	Story	21.5
Franklin	21.0	Tama	30.5
Frederick	11.5	Taylor	28.5
Gene	44.25	Union	19.5
Grundy	1.5	Van Buren	75.5
Harrison	31.0	Wapello	62.5
Hamilton	40.25	Warren	31.0
Hancock	18.5	Washington	39.0
Hardin	22.25	Wayne	17.5
Harrison	25.5	Webster	38.0
Henry	21.5	Winnebago	12.5
Howard	17.0	Winnesaukee	34.5
Humboldt	18.5	Woodbury	106.0
Ia	22.5	Worth	36.75
Iowa	22.0	Wright	14.5
Jackson	39.0	Office	1,055.0
Jasper	41.5		
Jefferson	25.5	Total	4,030.0



## CHAPTER XI

### Work for Other State Departments

#### Organization.

The Iowa law provides that all roads within and adjacent to state lands shall constitute separate road districts. Formerly all such roads were under the supervision of the State Board of Control. By Act of the Fortieth General Assembly, effective April 8, 1923, the law was amended so that "highways on lands of the state and highways on which such lands abut, shall constitute a separate road district for each state institution, or state park, in connection with which such lands are used, and shall be under the jurisdiction of the board in control thereof." By legislative act, the Chief Engineer of the State Highway Commission shall be supervisor of the said several road districts, and serve without additional compensation.

Under this law there are now roads under the jurisdiction of the State Board of Control, State Board of Education, and State Board of Conservation.

Under the Board of Control and Board of Education there are about seventy miles of road at the different state institutions, which are maintained under this law. All public highways through or adjoining state parks under the Board of Conservation and lands under the control of other state boards, are also included under such laws, but so far the construction and maintenance of such roads has not been well organized. Steps are being taken, however, to secure such organization.

In addition to the above, the Fortieth General Assembly passed an act effective July 4, 1923, providing that the State Board of Conservation may call upon the Highway Commission for engineering services, and that the compensation for such services shall be paid as part of the maintenance of the Highway Commission.

#### Summary of Work During 1923 at State Institutions.

New work undertaken during 1923 has included the paving along the state lands of the Soldiers' Orphans Home at Davenport, on Eastern Avenue from the C. M. & St. P. Ry. crossing to Forty-first Street. The completion of the grading of 1.8 miles of new road connecting the Oakdale State Sanatorium with the pavement on Primary Road Number 7 was accomplished. Portions of the roads at the School for the Deaf at Council Bluffs and the Institution for

Feeble-minded Children at Glenwood, were blade graded by arrangements made with the local township or county authorities. The road along the west side of the grounds at the Women's Reformatory at Rockwell City was given a re-surfacing of gravel by similar arrangement. At Cherokee, Independence, Woodward and Ames, regular patrolmen are employed. At the other institutions men are employed part time on the roads.

#### Summary of Services Rendered to the Board of Conservation During 1923.

Under the Board of Conservation there are some seventy meandered lakes and approximately twenty-six state parks. The supervision of these areas necessarily involves a large number of problems requiring engineering service and advice on boundary surveys, highways, shore protection, and hydraulic problems of various kinds.

In connection with this work it has been found that complete and authentic maps of the various state parks were not available. The engineer assigned to this work has prepared tentative boundary plats of some ten state parks, prepared the detailed plans for four lake spillways or dams, and two shore protection jobs, approved plans for two lake spillways and dams, inspected road construction at three parks, and has had engineering supervision of one job of lake dredging. In connection with the above, general engineering supervision of construction has been given on most of the work involved.

In addition to the above, field inspection has been made of a number of lakes and parks with a view to future work. A survey party has now been organized to work during the coming winter on various surveys requested by the Board of Conservation.

The following details for State Institution roads are given. For expenditures July 1, 1922 to June 30, 1923, see Schedule No. 34.

#### Iowa State College, Ames.

The roads have been maintained by the patrol system, gravel or cinders being applied where necessary and general maintenance rendered.

#### State Reformatory, Anamosa.

The roads at this institution are now maintained under the supervision of the county engineer acting as local road supervisor. The necessary patrol tools have been purchased and some of the roads blade graded with the county outfit.



**Cherokee State Hospital, Cherokee.**

The roads have been maintained and kept in good repair by the patrol system. The mile of paving has had the cracks filled, and the flood water flumes thereon have been enlarged.

**Clarinda State Hospital, Clarinda.**

The roads have been maintained by the institution or the local township or county authorities.

**School for the Deaf, Council Bluffs.**

The roads here have been maintained by the local road patrolman. All the earth roads were tractor graded by a county crew.

**Soldiers' Orphans' Home, Davenport.**

The unpaved roads have been maintained by institutional farm help. Eastern Avenue from the C. M. & St. P. Ry. to Forty-first street has been paved this year by the City of Davenport. A portion of this pavement is bitulithic pavement thirty feet wide, and a portion is concrete eighteen feet wide.

**Boys' Training School, Eldora.**

The roads have been maintained by the inmates under the direct supervision of the steward of the institution.

**State Penitentiary, Ft. Madison.**

The roads have been maintained by institution forces, applying cinders and dragging.

**School for Feeble-Minded Children, Glenwood.**

The roads are maintained by township trustees or by the county. A portion of the roads were blade graded by local authorities this season.

**State Hospital, Independence.**

The roads have been excellently maintained by the patrol system. Practically all the roads have been cindered.

**Soldiers' Home, Marshalltown.**

The road that is unpaved has had little work or little maintenance. However, the city of Marshalltown has recently let contracts for grading and culvert construction whereby this condition will be improved.

**Training School for Girls, Mitchellville.**

The roads have been maintained by institution forces and county and township authorities.

**State Hospital, Mt. Pleasant.**

The roads have been maintained by institution forces.

**State Sanatorium, Oakdale.**

Arrangements have been made for heavy maintenance to be cared for by the county, and the dragging and light maintenance by the institution forces. The grading of approximately 1.8 miles of new road from the institution to connect with pavement leading to Iowa City, has been completed.

**Women's Reformatory, Rockwell City.**

Arrangements have been made for the maintenance of roads at this institution to be cared for by the county. Pursuant to such arrangements the road was re-surfaced with gravel.

**Juvenile Home, Toledo.**

The roads are cared for by institution forces or by the city of Toledo.

**School for the Blind, Vinton.**

The roads are maintained by institution forces.

**Hospital and Epileptic Colony, Woodward.**

The roads are maintained by the patrol system. All of the roads have been surfaced with gravel or cinders. This year some additional tile drains were installed.

**State University, Iowa City.**

The roads at this institution are all paved and cared for by the city.

**State Teachers' College, Cedar Falls.**

Approximately fifty percent of the roads here are paved city streets, and the remainder are cindered. Maintenance is cared for by the city.

The following details for work under the Board of Conservation are given:

**State Park Plats.**

Tentative plats have been prepared for the following parks, by assembling data from deeds, existing plats, and otherwise:

1. Wapsipinicon Park, Jones County.
2. Backbone State Park, Delaware County.
3. Theo. F. Clark Park, Tama County.
4. Dolliver Memorial Park, Webster County.
5. Farmington State Park, Van Buren County.
6. Gitchie Maniton State Park, Lyon County.
7. Ledges State Park, Boone County.
8. Oakland Mills Park, Henry County.
9. Palisades Park, Linn County.
10. Pilot Knob Park, Hancock and Winnebago Counties.



Information has been assembled for platting several other areas but the data is still incomplete. The intention is to eventually have plats of all state parks, showing the boundaries and roads so that construction and maintenance can be handled as separate road districts.

#### Plans for Lake Improvements.

Detailed plans and specifications have been prepared for work at the outlets of the following lakes:

1. Rush Lake, Palo Alto County, spillway repair.
2. Medium Lake, Palo Alto County, new spillway.
3. Silver Lake, Dickinson County, new spillway.
4. Silver Lake, Delaware County, widening earth dam.

Detailed plans and specifications and estimates have been prepared for shore protection at the following lakes:

1. Silver Lake, Palo Alto County, riprap.
2. Wall Lake, Sac County, riprap.

Surveys and measurements were made for the dredging of Medium Lake in Palo Alto County, and assistance given the county engineer on surveys at Pine Creek Park at Eldora, and plans prepared by the Commission for a combined concrete bridge and spillway at this park.

Plans for the construction of a combined bridge and spillway at Tuttle Lake, Emmet County, as prepared by the county engineer, were reviewed, field inspection made and hearings and conferences attended.

#### Supervision of Construction.

General engineering supervision has been given to the construction at Rush Lake, Medium Lake, Silver Lake in Dickinson County, Silver Lake in Delaware County, Tuttle Lake, Silver Lake in Palo Alto County, Wall Lake in Sac County, and also to a portion of the work at Eldora Pine Creek Park.

Field inspections and reports have been made for the Board of Conservation regarding road construction carried on at Pilot Knob Park and Farmington State Park.

#### Surveys Proposed.

A seven-man field party has been organized to make surveys in the various state parks, as requested by the Board of Conservation. This field work is to be carried on during the winter months so that plans can be prepared for next season's construction. One man has been detailed for a joint investigation to be made with the State of Minnesota regarding the work at Tuttle Lake, which is on the state boundary.

SCHEDULE NO. 34  
SUMMARY OF EXPENDITURES FOR WORK AT STATE INSTITUTIONS, JULY 1, 1927-JUNE 30, 1928

Institution	Engineering Supervision	Finished Grade	Gravel and Surfacing	Dredging	General Repairs	Paving	Bridges and Culverts	Tiling and Equipment Guard Rail and Tools
Iowa State College, Ames	\$ 4.15	\$ 1,225.92	\$ 557.02	\$ 665.80	\$ 1,406.00			\$ 16.00
University of Iowa, Iowa City	18.65							1,430.00
Cherokee State Hospital, Cherokee	12.60	431.20	222.00	222.00	981.80	\$ 156.55		82.54
Charlton State Hospital, Charlton	8.40			94.50	85.80			
School for the Deaf, Council Bluffs	21.20							105.88
Boys' Training School, Eldora	12.10	1,000.00						130.37
Penitentiary, Ft. Madison	12.47							156.00
School for Pecos-Minkol Children, Glenwood	17.02	221.20		665.20	888.20			30.50
State Farm, Marshalltown	11.02							156.00
Soldiers' Home, Marshalltown	5.94							645.75
Girls' Training School, Mitchellville	5.46			47.00	190.50			
Sanatorium, Okawville	22.55	6,700.00		47.00	47.58		\$ 2,713.75	145.00
Women's Reformatory, Rockwell City	5.21							
Juvenile Home, Toledo	11.30							180.00
State Farm, Woodburn	49.20	946.20		755.00	1,000.00			52.31
State Farm, Clio	5.47							1,898.36
<b>Total</b>	<b>\$ 419.02</b>	<b>\$ 9,168.78</b>	<b>\$ 2,566.22</b>	<b>\$ 80,232.49</b>	<b>\$ 4,291.28</b>	<b>\$ 156.55</b>	<b>\$ 3,713.75</b>	<b>\$ 3,410.22</b>

\*These institutions under Board of Education now. Also State University at Iowa City and Teachers' College at Cedar Falls, which are not listed are under Board of Control.  
†Transfer of funds.



## CHAPTER XII

### Department of Materials and Tests

#### Tests of Materials.

Materials for use on roads and bridges on both the primary and secondary systems were inspected during 1923 as follows:

	Amount Inspected	Amount Rejected
Sand .....	176,902 tons	9,249 tons
Gravel .....	186,060 tons	17,531 tons
Crushed stone.....	68,770 tons	1,885 tons
Cement .....	694,918 bbls.	9,834 bbls.
Steel .....	5,137 tons	45 tons
Paving brick .....	2,244,000	742,000
Tile .....	2,208,356 lin. ft.	163,663 lin. ft.
Pit run gravel.....	286,180 tons	23,695 tons

The value of the materials inspected is approximately \$3,200,000. Owing to the fact that Iowa is not fortunately situated with respect to large supplies of first quality materials, unceasing vigilance is necessary in safe guarding the investment in roads and bridges. The inclusion of the rejected material in the work this year might have seriously effected the quality of pavements and bridges worth at least \$300,000.

This inspection involved tests upon 18,658 samples of material each of which represented approximately one car load. Tests were distributed as follows:

Primary roads and bridges.....	15,787
Secondary roads and bridges.....	1,250
General, Tests of deposits, etc.....	1,621
	18,658

#### Material Resource Surveys.

The principal work of this division in 1923 consisted in location and examination of gravel deposits for use as surfacing material. One hundred fifteen deposits in 30 counties for the surfacing of 425 miles of road were examined and tested.

#### Experimental Work.

In comparison with most of the other states of the Union, Iowa is poorly supplied with materials for concrete roads and bridges, and we have therefore a very great problem to solve in learning to use the materials we have, to the best advantage. Investigations

along this line have culminated during 1923 in decided improvements in the specifications for concrete road construction. The method of measuring materials has been placed on a definite weight basis, and specifications have been prepared providing for the use of considerable material not otherwise available. Also studies of the effect of shale and soft pebbles in gravel and the development of a new testing machine for such substances enabled us to judge of the quality of gravel with greater accuracy than was formerly possible.

The problem of elimination or control of cracks in concrete pavements is one needing solution, and is under investigation. Thus far we have made satisfactory progress in the elimination of aggravated cases of surface checking, and have developed new specifications covering this point.

A statistical summary of the experimental work follows:

#### 1. Daily tests of concrete on pavement construction.

Specimens tested in 1923.....	1,900
Specimens made in 1923.....	1,700

2. Work on the investigation of the cause and control of cracks in concrete pavements has been practically continuous throughout the year. This work involves, a study of the thermal coefficient of expansion of concrete of different proportions; a study of the expansion and contraction of concrete as affected by a varying moisture content; a study of the coefficient of friction between concrete slabs and different classes of soil; a study of the shrinkage of concrete while setting and curing; a study of the elastic properties of concrete made of different proportions; and a study of the effects of the various subgrade soils on fresh concrete.

An outline of the work done during the year is given below:

Miles of pavement inspected on foot to accurately locate all cracks.....	175 miles
Number of specimens made and tested in laboratory .....	1,100
Number of instruments designed and made for use on this work.....	5
Number of testing machines built.....	3
Tests of materials.....	30

3. A special investigation of a patented method of finishing concrete pavement has been started and almost completed. This method may make available, material resources not now usable.

Specimens made .....	849
Specimens tested .....	650
Specimens to be tested this winter.....	49

These specimens were 8x12x84 inch beams weighing approximately 700 pounds each, and special home built machinery was required for handling and testing.







SCHEDULE NO. 36—Continued

128

IOWA STATE HIGHWAY COMMISSION

DEPARTMENT OF MATERIALS AND TESTS

129

County In Which Used	No. of Samples Tested for Use on			Kind of Material												Total all materials
	Primary system	Secondary system	General	Cement	Sand	Coarse aggregate	Plt-run gravel	Brick	Drain tile	Reinforcing steel	Corrugated metal	Oils, asphalts	Limestone	Paint		
Dickinson	12	3		5												
Dubuque	12						3		25						5	
Emmet	12													1	29	
Fayette	33	3		5	4	1	2		12						12	
Floyd	38	18							23	1					26	
Franklin	24	3		1		1			54						36	
Greene	600	4			2	2	11		12						56	
Grundy	20			104	204	203	2		29						27	
Guthrie	67				2	2	5		11	4			67		613	
Hamilton	40	12		10	25	29	10		4						20	
Hancock	21	7		17		9	9		7	1					79	
Hardin	32	6		2	1	1	2		19	2		1		2	47	
Harrison	32	7		6			17		16					2	27	
Henry	6	1		6					1						39	
Howard	65			9	17	34			2						7	
Ida	22	30		5	5	5	3		32	2					65	
Iowa	1	14		9		1				3					51	
Jackson	33	46		1	19	55	4			3					15	
Jasper	4		1												79	
Jefferson	11	13		19	2	2			1	3				1	5	
Johnson	135	15		13	12	19									24	
Jones		3	14	7	5	3	77		17	3				9	150	
Keokuk	45	3		8			2								17	
Kossuth	101	2		22	31	37	27		10	2			1		48	
Lee	246	1			37		10		1	1					103	
Linn	40	2		45	67	4	1								247	
Louis	2	7		15	5	4			9	1			139		42	
Louis	40	2		3	1		3						2		9	
Lyon	56	46		9	35	37	8		7	5			1	1	102	
Madison	46	2		11		5	22		4		1				48	
	25	12			18	14	4				1	1	1		37	

Mahaska	168	6	2	33	19	25	22		2	10		2	1	2	116
Marion	81	15		17	32	40	3		3	1					96
Marshall	14	7		14			7								21
Millis		2													2
Mitchell	2														2
Monona	85	2		22	6	11	33			12				3	87
Monroe	63	3		13	2	17	21		8	3			1	1	66
Muscatine	11	32		7	13	16	3			1				3	43
O'Brien	20	13	1	14	1	2	3			4		5	4	1	34
Osceola	23	12		3			23		5	2					35
Page	107	2		12	42	47				7		1			199
Palo Alto	2	5		7											7
Plymouth	155	8		45	13	26	64			14				1	163
Pocahontas	29	5		3		16	10		4	1					34
Polk	2,834	43		520	587	1,014	677		4	10			65		2,877
Pottawattamie	11	3		9	1	1	1			2					11
Poweshiek	7	68		8	17	18	32								75
Ringgold	81	11		15	26	32	6			9			2	2	92
Sac	26	10	3	15			3		4	17					39
Scott	2,085	65		543	372	241	902	266	2	9		30	381	4	2,759
Shelby		25		8	7	7				2				1	25
Sioux	36	16		17		1	19			7	2			4	53
Story	165	15	31	3	81	104				1		3	19		211
Tama	87	8		33		1	55		3	2				1	95
Taylor	87	3		21	21	25	5			12		1		2	96
Union	29	11		2	13	22									46
Van Buren	37	5		4	1	4	22		1	4		6			42
Wapello	140	17		13	59	52	7		1	1		1	29	3	157
Warren	28	22		2	22	22				5					51
Washington	425			168	242	66	2		7	5					425
Wayne	37	8		6	1		26			1		1			45
Webster	90			16	3	16	51		1	3					161
Winnebago	3	20							22						23
Winneshiek	40	40		20	23	20	2		3	5			2	2	80
Woodbury	2,624	8		562	977	1,049	9			29	6				2,693
Worth	16	4		16			5		4					1	29
Wright	26	46		6	4	27	22		13						79
Other states	112			104					8						112
Material resources			718	21		1	406		7				183		718
Research			638	16	3	189	100			8		26	265	21	638
Investigation			137		4	111			3	19					137
Miscellaneous			35	2	2	3	4		5	5			9	5	37
Total	15,787	1,250	1,621	3,470	3,718	5,047	3,647	266	867	339	10	98	1,292	104	14,674



SCHEDULE NO. 37

## TESTS OF MATERIALS ACCORDING TO LABORATORIES

[illegible]

## CHAPTER XIII

### Financial Statement

Period Covered.

The data contained herein constitutes a statement of the expenditures from the Commission's Maintenance Fund and from the Federal Aid Engineering Fund, for the fiscal year July 1, 1922 to June 30, 1923, and also a statement of the expenditures from the primary road funds for the year December 1, 1922 to November 30, 1923.

### classification of Expenditures.

The expenditures of the Commission are divided into five classes as follows:

- (a) Supervision of county and township highway work and purchase of equipment for primary road work.
- (b) Receipt, storage, and repair of government equipment.
- (c) Federal aid engineering work.
- (d) Construction work on primary road system.
- (e) Maintenance work on primary road system.

Supervision of County and Township Road Work, and Purchase of Equipment for Primary Roads.

The total expenditure for supervising county and township road work and purchasing equipment for primary road work for the fiscal year ending June 30, 1923, was \$130,118.23. From this should be deducted \$20,616.96 which was collected as rental on engineering equipment and returned to the Commission's support fund, leaving a net cost to the state of \$109,501.27. (Refer to Schedule No. 65). A comparison of the cost of this phase of the Commission's work for the past five years follows:

Fiscal year ending June 30, 1919.....	\$121,962.05
Fiscal year ending June 30, 1920.....	119,623.04
Fiscal year ending June 30, 1921.....	146,456.30
Fiscal year ending June 30, 1922.....	128,283.14
Fiscal year ending June 30, 1923.....	130,118.23

### Receipt, Storage, and Repair of Government Equipment.

For the receipt, storage, and repair of Government equipment during the fiscal year ending June 30, 1923, the Commission spent \$121,234.24. During the same period the Commission collected \$63,832.22 from rentals on some of such equipment and from the



sale of spare parts and unserviceable equipment. Accordingly, the net cost of this phase of the work was \$57,402.02. This net cost includes \$12,000 for the purchase of eighteen acres of ground (See Chapter 329 of the 40th General Assembly) and \$18,035.44 for the construction of two storage sheds and enlarging of the repair shop. These expenditures amounting to \$30,035.44 are investments in a permanent plant, and not operating costs. The net operating cost was \$27,366.58.

The government equipment received during 1923 is valued at \$321,853.75.

#### Federal Aid Engineering Work.

The total expenditure from the federal aid engineering fund for the fiscal year ending June 30, 1923, for engineering in connection with federal aid and primary road work, was \$362,149.52. The following is a classification of this expenditure and comparison with 1921 and 1922. (Refer to Schedule No. 67.)

	1921	1922	1923
Reconnaissance and traffic census.....	\$ 3,816.54	\$ 3,639.28	\$ 3,705.17
Surveys.....	135,900.29	125,407.39	57,021.63
Profiles.....	118,657.88	120,871.43	81,322.71
Specifications, conferences and records.....	73,496.20	81,458.92	81,229.90
Bridge and culvert plans.....	43,839.58	40,912.40	38,099.14
Supervising construction and testing materials.....	103,201.53	129,853.19	100,000.97
Totals.....	\$478,942.02	\$503,142.61	\$362,149.52

#### Decrease in Expenditures.

The Commission's support fund and the Federal Aid Engineering Fund are the only funds wholly under the control of the Commission. As shown above, the expenditure from the Federal Aid Engineering Fund decreased \$140,993.09 from 1922 to 1923. This decrease is due principally to the decrease in the mileage of surveys and plans which must be prepared to keep up with the construction program. During the same period the gross expenditures from the Commission's support fund increased from \$240,850.85 in 1922 to \$251,352.47 in 1923, a gross increase of \$10,501.62. This gross increase is more than offset by the amount paid (\$12,000) for the eighteen acres of land where the truck sheds are located, which expenditure was authorized by Chapter 329 of the 40th General Assembly. While the gross expenditure from the Commission's support fund increased \$10,501.62 in 1923, at the same time the receipts from rentals on war equipment and spare parts increased

from \$67,809.70 in 1922 to \$84,449.18 in 1923, a total increase in such receipts of \$16,639.48. Thus the net expenditures from the Commission's support fund decreased from \$173,041.15 in 1922 to \$166,903.29 in 1923, a net decrease of \$6,137.86. The total net decrease in the expenditures from the only funds wholly under the Commission's control, was \$147,130.95, and in addition to that the eighteen acres of ground where the truck sheds are located was purchased and paid for.

#### Construction Work on Primary Road System.

The total expenditure for the construction work on the primary road system from December 1, 1922 to November 30, 1923, was \$12,663,736.53. The funds from which these expenditures were made are as follows:

	1922	1923
Primary road fund.....	\$ 8,729,773.81	\$ 4,739,587.80
Primary road bond fund..	2,595,093.53	2,742,362.24
Anticipation certificates....	1,178,441.37	4,366,458.45
Special assessments.....	702,757.40	285,634.95
County funds.....		20,532.87
City funds.....	118,489.03	509,160.22
	\$13,324,555.14	\$12,663,736.53

In 1921 the expenditure was \$15,500,523.64.

This expenditure is classified according to the kind of work as follows:

	1922	1923
Grading.....	\$ 5,528,918.08	\$ 4,733,548.81
Graveling.....	1,236,914.21	1,128,591.57
Paving.....	3,197,922.01	3,211,385.32
Drainage.....	610,109.31	434,857.12
Bridges and Culverts.....	1,979,872.53	2,082,579.63
Guardrail.....	247,398.40	242,961.13
Right-of-way.....		288,204.42
Machinery and Equipment..		4,035.28
Engineering.....	528,790.91	537,573.25
	\$13,329,925.45	
Refund on Machinery and Equipment.....	5,370.31	
Total.....	\$13,324,555.14	\$12,663,736.53

The total expenditure for construction work on the primary road system since the first federal aid law became effective to November



## IOWA STATE HIGHWAY COMMISSION

30, 1923, was \$47,136,534.00. The funds from which these expenditures were made are as follows:

Primary Road fund.....	\$27,946,560.15
Primary road bond fund.....	9,585,004.92
Anticipation certificates.....	5,544,899.82
Special assessments.....	3,112,088.31
County funds.....	300,331.55
City funds.....	627,649.25
Donations.....	20,000.00
Total.....	\$47,136,534.00

This expenditure is classified according to the kind of work, as follows:

Grading.....	\$17,342,328.54
Graveling.....	3,924,621.92
Paving.....	15,450,813.00
Drainage.....	2,570,326.78
Bridges and Culverts.....	5,189,760.96
Guardrail.....	490,359.53
Right-of-Way.....	288,204.42
Machinery and Equipment.....	107,498.93
Engineering.....	1,772,619.92
Total.....	\$47,136,534.00

## Maintenance Work on the Primary Road System.

During the year December 1, 1922 to November 1, 1923, the cost of maintaining the primary road system was \$2,420,900.25. Since the primary road system contains 6,646.6 miles, the maintenance cost averaged \$364.23 per mile.

## Summary Statement of Primary Road Fund.

Balance on hand December 1, 1922.....	\$3,280,209.85
Receipts	
Federal Aid.....	\$1,401,915.16
Auto fees.....	7,823,793.34
Total Receipts.....	9,225,708.50
Total.....	\$12,505,918.35
Expended during 1923.....	9,526,497.30
Balance on hand November 30, 1923.....	\$2,979,421.05

Of the balance in the primary road fund on November 30, 1923, (\$2,979,421.05) \$1,416,948.07 is in the possession of the federal

government at Washington, D. C. The remaining \$1,562,472.98 is in the hands of the state treasurer and the various county treasurers of the State of Iowa.

## Primary Road Bonds and Certificates Outstanding.

On November 30, 1923 there were primary road bonds outstanding in the sum of \$7,497,000.00. These bonds had been issued by eleven counties (Refer to Schedule No. 77). On the same date the anticipation certificates outstanding amounted to \$3,591,100.00. These certificates had been issued by fifty-seven counties. (Refer to Schedule No. 78).



## SCHEDULE NO. 38

SUMMARY OF EXPENDITURES—JULY 1, 1922 TO JUNE 30, 1923

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
Commissioners	\$ 2,530.00	\$ 2,272.22	\$ 4,802.22				\$ 4,802.22
Executive department	10,452.00	549.60	11,001.60	\$ 5,726.00	5.10	\$ 5,731.10	5,270.50
Dept. of purchases and accounts	18,923.83	462.01	19,385.84	3,880.13	85.77	3,965.90	15,419.94
Accounting division	28,033.62	49.04	28,082.66	25,181.76	40.17	25,221.93	2,860.73
Dept. of road administration	10,050.00	555.33	10,605.33	7,300.17	287.38	7,587.55	3,017.78
Dept. of road design—Plans	19,289.55	2,223.22	21,512.77	18,420.43	983.29	19,403.72	2,109.05
Dept. of road design—Surveys	45,561.67	4,075.49	49,637.16	44,984.80	3,602.97	48,587.77	1,049.39
Dept. of road construction	12,545.80	3,000.82	15,546.62	12,241.30	1,003.20	13,244.50	1,762.12
Machinery and equipment division	52,405.07	30,407.29	82,812.36				82,812.36
Dept. of road maintenance	7,229.82	1,146.81	8,376.63				8,376.63
Traffic census division	950.77	15.84	966.61				966.61
Bridge department	46,316.07	1,335.30	47,651.37	27,642.43	891.18	28,533.61	19,117.76
Drainage department	1,671.39	458.68	2,130.07				2,130.07
Women's drafting department	19,158.00	14.46	19,172.52	14,225.96	14.40	14,240.42	4,932.10
Dept. of materials and tests	56,013.04	9,570.85	65,583.89	52,794.08	2,786.17	55,580.25	10,003.64
Equipment and supplies	18.49	85,121.34	85,139.83	61,200.57		61,200.57	23,939.26
District offices	114,726.00	26,198.51	140,924.51	69,536.71	8,715.49	78,252.20	62,672.31
Totals	\$445,965.18	\$167,536.81	\$613,501.99	\$281,933.77	\$ 80,215.75	\$362,149.52	\$251,352.47

## SCHEDULE NO. 39

COMMISSIONERS—JULY 1, 1922 TO JUNE 30, 1923

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
J. W. Holden	\$ 1,140.00	\$ 607.23	\$ 1,747.23				\$ 1,747.23
Wm. Collinson	1,300.00	792.40	2,182.40				2,182.40
Anson Marston		63.69	63.69				63.69
Departmental transportation		808.90	808.90				808.90
Totals	\$ 2,530.00	\$ 2,272.22	\$ 4,802.22				\$ 4,802.22

## SCHEDULE NO. 40

EXECUTIVE DEPARTMENT—JULY 1, 1922 TO JUNE 30, 1923

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
F. R. White, chief engineer	\$ 6,375.00	\$ 306.35	\$ 6,771.35	\$ 3,187.50	5.10	\$ 3,192.60	\$ 3,578.75
T. R. Agg, consulting road engineer	1,000.00	52.00	1,052.00	1,000.00		1,000.00	52.00
A. H. Fuller, consulting bridge engineer	1,500.00		1,500.00	750.00		750.00	750.00
May Vanderlinden, secretary	1,575.00		1,575.00	787.50		787.50	787.50
Extra help	2.00		2.00	1.00		1.00	1.00
Departmental transportation		101.25	101.25				101.25
Totals	\$10,452.00	\$ 549.60	\$11,001.60	\$ 5,726.00	5.10	\$ 5,731.10	\$ 5,270.50

## SCHEDULE NO. 41

DEPARTMENT OF PURCHASES AND ACCOUNTS—JULY 1, 1922 TO JUNE 30, 1923

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
C. R. Jones, auditor	\$ 3,375.00	\$ 331.46	\$ 3,706.46	\$ 1,687.50	85.77	\$ 1,773.27	\$ 1,933.19
J. W. Eichinger, bulletin editor	2,800.00	121.88	2,921.88				2,921.88
Velda Rowland, file clerk	1,575.00		1,575.00	787.50		787.50	787.50
Fanny Swanberg, stenographer	1,130.00		1,130.00	565.00		565.00	565.00
Merna Lee, stenographer	180.00		180.00	90.00		90.00	90.00
Grayce Johnson, stenographer	754.66		754.66				754.66
Anna S. Lynch, stenographer	600.00		600.00	300.00		300.00	300.00
Jennie Courter, stenographer	250.00		250.00	100.00		100.00	150.00
May A. Carr, stenographer	311.29		311.29	161.29		161.29	150.00
Eva Threlkeld, stenographer	350.00		350.00	175.00		175.00	175.00
Berneta Burton, stenographer	184.33		184.33				184.33
Moseley Dressler, blue print clerk	1,700.00		1,700.00				1,700.00
W. R. Bappe, asst. blue print clerk	1,035.00		1,035.00				1,035.00
G. R. Burrell, asst. blue print clerk	805.00		805.00				805.00
M. C. Severson, asst. blue print clerk	153.55		153.55				153.55
A. A. Heggen, inventory clerk	1,635.00	2.99	1,637.99				1,637.99
L. H. Doggett, store room clerk	1,600.00		1,600.00				1,600.00
Extra help	485.00	5.68	490.68	13.84		13.84	476.84
Totals	\$18,923.83	\$ 462.01	\$19,385.84	\$ 3,880.13	85.77	\$ 3,965.90	\$15,419.94



## SCHEDULE NO. 42

ACCOUNTING DIVISION—JULY 1, 1922 TO JUNE 30, 1923

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
M. E. Davis, asst. auditor	\$ 1,050.00	\$ 19.44	\$ 1,069.44	\$ 1,050.00	\$ 19.44	\$ 1,069.44	
E. T. Burk, chief clerk	2,485.00	13.33	2,498.33	2,485.00	13.33	2,498.33	
O. W. Ott, audit clerk	2,025.00	16.27	2,041.27	1,771.84	7.40	1,779.24	262.03
Elting W. Hanna, audit clerk	1,500.00		1,500.00	1,500.00		1,500.00	
E. D. Shivers, audit clerk	1,275.00		1,275.00	1,275.00		1,275.00	
V. L. McGriff, audit clerk	403.33		403.33	403.33		403.33	
Lester Gardner, audit clerk	889.03		889.03	889.03		889.03	
J. E. Judge, clerk	657.00		657.00	612.00		612.00	45.00
L. C. O'Brien, clerk	1,080.00		1,080.00	1,080.00		1,080.00	
J. R. Harrison, clerk	2,040.00		2,040.00	1,020.02		1,020.02	1,019.98
D. C. McNell, bookkeeper	1,830.00		1,830.00	1,601.25		1,601.25	228.75
D. A. Britten, asst. bookkeeper	1,395.00		1,395.00				
F. G. Nelson, asst. bookkeeper	1,335.00		1,335.00				
R. C. Hoon, asst. bookkeeper	983.33		983.33	788.00		788.00	195.33
Nellie Maroney, record clerk	1,320.00		1,320.00	900.00		900.00	390.00
Thelma Nowlin, stenographer	1,065.00		1,065.00	532.50		532.50	532.50
Bertha Lawson, stenographer	818.06		818.06	818.06		818.06	
Glady's Richmond, stenographer	975.00		975.00	813.75		813.75	161.25
Mildred Dunlap, stenographer	565.00		565.00	565.00		565.00	
Marion Mills, stenographer	568.87		568.87	568.87		568.87	
Benlah Nelson, stenographer	570.00		570.00	570.00		570.00	
Lena McCulley, stenographer	333.88		333.88				
Jeanette Knudson, stenographer	302.58		302.58	302.58		302.58	
Dorothy Layton, stenographer	108.87		108.87	108.87		108.87	
Nellie Miller, stenographer	126.45		126.45				
Leota Thompson, stenographer	411.77		411.77	411.77		411.77	
Geraldine Klingkade, stenographer	424.70		424.70	424.70		424.70	
Josephine Maroney, stenographer	118.71		118.71	118.71		118.71	
Edna A. Cooper, stenographer	161.33		161.33	161.33		161.33	
Margaret Collins, stenographer	141.17		141.17	141.17		141.17	
Melvina Allen, stenographer	216.77		216.77	216.77		216.77	
Mildred Porter, stenographer	190.00		190.00	190.00		190.00	
Elsie Murphy, stenographer	161.29		161.29	161.29		161.29	
Elizabeth Glenn, stenographer	204.16		204.16	118.27		118.27	85.89
Extra help	302.32		302.32	302.32		302.32	
Totals	\$28,033.62	\$ 49.64	\$28,083.26	\$25,181.76	\$ 40.17	\$25,221.93	\$ 2,861.33

## SCHEDULE NO. 43

DEPARTMENT OF ROAD ADMINISTRATION—JULY 1, 1922 TO JUNE 30, 1923

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
C. Coykendall, asst. chief engineer	\$ 4,000.00	\$ 416.05	\$ 4,416.05	\$ 4,000.00	\$ 171.21	\$ 4,171.21	\$ 244.84
M. L. Hutton, asst. engr. road admin.	3,200.00	139.28	3,339.28	1,282.67	116.17	1,398.84	1,940.44
Anne Vanderlinden, road recorder	1,710.00		1,710.00	1,210.00		1,210.00	500.00
Myrtle Jorgenson, stenographer	1,140.00		1,140.00	807.50		807.50	332.50
Totals	\$10,050.00	\$ 555.33	\$10,605.33	\$ 7,300.17	\$ 287.38	\$ 7,587.55	\$ 3,017.78

## SCHEDULE NO. 44

DEPARTMENT OF ROAD DESIGN—JULY 1, 1922 TO JUNE 30, 1923

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
W. E. Jones, engineer of road design	\$ 4,425.00	\$ 405.87	\$ 4,830.87	\$ 4,167.64	\$ 349.32	\$ 4,516.96	\$ 313.91
E. R. Meredith, asst. engr. road design	2,875.00	614.32	3,489.32	2,800.96	602.62	3,403.58	25.74
Robert McCormick, resident engineer	2,700.00	2.85	2,702.85	2,611.13	2.85	2,613.98	88.87
F. C. Schneider, road designer	2,000.00	1.50	2,001.50	2,569.66	1.50	2,571.16	30.34
H. S. Leicht, road designer	377.42		377.42	264.74		264.74	112.68
W. P. Lindauer, road designer	806.29	27.35	833.74	778.73	27.00	805.73	28.01
Carl Albaugh, draftsman	1,875.00		1,875.00	1,837.21		1,837.21	37.79
F. K. Mullins, draftsman	880.00		880.00	770.00		770.00	110.00
L. E. O'Doole, draftsman	900.00		900.00	861.00		861.00	39.00
H. W. Groth, draftsman	999.25		999.25	893.67		893.67	105.58
Extra help—drafting	851.49		851.49	805.60		805.60	45.89
Departmental transportation		1,171.33	1,171.33				1,171.33
Totals	\$19,289.55	\$ 2,223.22	\$21,512.77	\$18,420.43	\$ 983.29	\$19,403.72	\$ 2,109.05



## SCHEDULE NO. 45

DEPARTMENT OF ROAD SURVEYS—JULY 1, 1922 TO JUNE 30, 1923

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
John Butler, chief of party.....	118.20	28.70	156.90	118.20	28.70	156.90	
L. E. Clayton, chief of party.....	1,629.80	173.12	1,802.92	1,629.80	173.12	1,802.92	
Eugene Cook, chief of party.....	901.14	116.01	1,017.15	862.49	114.38	1,007.06	9.67
J. Geo. Isaac, chief of party.....	126.75		126.75	126.75		126.75	
W. M. Dunagan, chief of party.....	1,126.61	176.62	1,303.23	1,049.27	167.44	1,216.71	86.50
F. E. Erwin, chief of party.....	625.00	6.00	631.00	625.00	6.00	631.00	
C. C. Everett, chief of party.....	987.18	109.44	1,096.62	976.08	109.44	1,085.52	11.10
M. H. Ford, chief of party.....	172.35		172.35	172.35		172.35	
C. L. Gleason, chief of party.....	144.08	40.88	184.96	144.08		144.08	
G. M. Griffin, chief of party.....	115.00	1.68	116.68	115.00	1.68	116.68	
R. W. Merritt, chief of party.....	2,349.49	265.19	2,614.68	2,349.49	265.19	2,614.68	
S. W. O'Brien, chief of party.....	243.79	68.51	312.30	243.79	68.51	312.30	
Duane Raver, chief of party.....	224.56	26.72	251.28	224.56	26.72	251.28	
J. H. Richards, chief of party.....	309.89	98.32	408.21	309.89	98.32	408.21	
T. F. Riley, chief of party.....	1,247.72	148.36	1,396.08	1,239.44	148.36	1,387.80	8.28
F. W. Shive, chief of party.....	171.48	7.72	179.20	171.48	7.72	179.20	
H. F. Tompkins, chief of party.....	113.96		113.96	113.96		113.96	
E. A. Zuck, chief of party.....	369.22	17.39	386.61	369.22	17.39	386.61	
J. T. Baugher, instrument man.....	871.89	114.92	986.81	868.56	114.92	983.48	7.54
L. L. Boggess, instrument man.....	367.75		367.75	367.75		367.75	
W. F. Cardman, instrument man.....	713.69	96.64	810.33	713.69	81.91	795.60	14.71
Geo. Christiansen, instrument man.....	388.50	40.00	428.50	388.50	40.00	428.50	
M. L. Clement, instrument man.....	1,024.50	157.34	1,181.84	1,074.50	157.34	1,231.84	
H. E. Cook, instrument man.....	290.30	65.48	355.78	290.30	65.48	355.78	
H. E. Copeland, instrument man.....	225.00	30.00	255.00	225.00	30.00	255.00	
Wm. Eberts, instrument man.....	430.82	66.89	497.71	430.82	66.89	497.71	
Ray L. Paulin, instrument man.....	212.82	39.97	252.79	212.82	39.97	252.79	
Glenn Foster, instrument man.....	292.39	26.68	319.07	292.39	27.49	319.88	78.00
Leon Frush, instrument man.....	791.90	101.11	893.01	791.90	101.11	893.01	
A. A. Kennedy, instrument man.....	110.50	15.05	125.55	110.50	15.05	125.55	
H. E. Koenig, instrument man.....	613.46	90.97	704.43	613.46	90.97	704.43	
C. F. Lechner, instrument man.....	1,110.16	167.47	1,277.63	1,104.30	167.47	1,271.77	5.86
H. M. Lester, instrument man.....	828.92	123.08	952.00	823.47	123.08	946.55	31.47
A. A. Lyons, instrument man.....	151.14	14.16	165.30	151.14	14.16	165.30	
Barnes McDonald, instrument man.....	742.69	55.01	797.61	742.69	55.01	797.61	
J. O. McFadden, instrument man.....	800.50	32.23	832.73	800.50	32.23	832.73	
J. B. McKee, instrument man.....	185.96	102.72	288.68	185.96	102.72	288.68	
Harold Nowlin, instrument man.....	909.36	157.26	1,066.62	909.36	157.26	1,066.62	
H. L. Miller, instrument man.....	122.01	30.00	152.01	122.01	30.00	152.01	
C. A. Rogers, instrument man.....	170.50		170.50	170.50		170.50	
J. F. Spruce, instrument man.....	181.50		181.50	181.50		181.50	
J. J. Stout, instrument man.....	782.96	112.58	895.54	782.96	112.58	895.54	
John Sykes, instrument man.....	502.45	76.98	579.43	502.45	76.98	579.43	
P. F. Trotter, instrument man.....	236.71	22.58	259.29	236.71	22.58	259.29	
Paul Turner, instrument man.....	117.10	12.98	130.08	117.10	12.98	130.08	
R. E. White, instrument man.....	841.23	125.46	966.69	841.23	125.46	966.69	30.40
Brown Agnew, rod man.....	153.00		153.00	153.00		153.00	
Fred Alexander, rod man.....	133.00		133.00	133.00		133.00	
Roy Beals, rod man.....	182.50		182.50	182.50		182.50	
F. F. Blair, rod man.....	405.00		405.00	405.00		405.00	
V. A. Buckle, rod man.....	547.26		547.26	547.26		547.26	
W. K. Chantry, rod man.....	300.00		300.00	300.00		300.00	
Vernon Collins, rod man.....	76.98		76.98	76.98		76.98	
E. J. Cooper, rod man.....	274.67		274.67	274.67		274.67	
O. K. Dana, rod man.....	329.84		329.84	329.84		329.84	

## SCHEDULE NO. 45—Continued

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
E. D. Davis, rod man.....	169.35		169.35	169.35		169.35	
L. C. Dorrill, rod man.....	92.00		92.00	92.00		92.00	
James Englebert, rod man.....	74.03		74.03	74.03		74.03	
Ray C. Fairbank, rod man.....	285.17		285.17	285.17		285.17	
A. E. Gardner, rod man.....	764.59		764.59	764.59		764.59	
M. J. McGrader, rod man.....	614.52	3.50	618.02	568.61		568.61	49.41
R. J. Hanson, rod man.....	169.84		169.84	169.84		169.84	
H. E. Haywood, rod man.....	275.90		275.90	275.90		275.90	
Erin Henningsen, rod man.....	71.13		71.13	71.13		71.13	
Wm. Hughes, rod man.....	128.00		128.00	128.00		128.00	
Chas. W. Irwin, rod man.....	247.20		247.20	247.20		247.20	
J. F. Kirby, rod man.....	99.35		99.35	99.35		99.35	
Arthur Klotz, rod man.....	224.99		224.99	224.99		224.99	
Leon Krongle, rod man.....	827.00		827.00	827.00		827.00	
John LaMassery, rod man.....	111.97		111.97	111.97		111.97	
Olaf Larson, rod man.....	730.50		730.50	730.50		730.50	
F. R. Lechner, rod man.....	80.25		80.25	80.25		80.25	
Alvin Lipe, rod man.....	378.29		378.29	378.29		378.29	
C. D. Mayne, rod man.....	688.71		688.71	688.71		688.71	
E. E. Miller, rod man.....	198.40		198.40	198.40		198.40	
Ray Miller, rod man.....	172.74		172.74	172.74		172.74	
Ray Morgan, rod man.....	149.81		149.81	149.81		149.81	
E. F. Morse, rod man.....	168.73		168.73	168.73		168.73	
L. C. Nichols, rod man.....	342.89		342.89	342.89		342.89	
Carl Packer, rod man.....	270.00		270.00	270.00		270.00	
Sam Parkin, rod man.....	128.00		128.00	128.00		128.00	
Howard Paulson, rod man.....	142.07		142.07	142.07		142.07	
L. D. Raver, rod man.....	159.67		159.67	159.67		159.67	
Chas. Reed, rod man.....	159.67		159.67	159.67		159.67	
Ernest Reis, rod man.....	294.08		294.08	294.08		294.08	
Geo. Rigby, rod man.....	138.50	2.15	138.50	138.50	2.15	138.50	
Marlin Seshan, rod man.....	500.00		500.00	500.00		500.00	
W. H. Smith, rod man.....	449.33		449.33	449.33		449.33	
Paul C. Smith, rod man.....	439.83	60.40	500.23	439.83	60.40	500.23	
W. B. Spangier, rod man.....	74.03		74.03	74.03		74.03	
S. N. Spindler, rod man.....	145.67		145.67	145.67		145.67	
L. J. Sullivan, rod man.....	61.82	1.68	63.50	61.82	1.68	63.50	
James Thompson, rod man.....	1,005.17		1,005.17	1,005.17		1,005.17	
H. E. Thompson, rod man.....	225.00		225.00	225.00		225.00	
O. C. Weber, rod man.....	190.16		190.16	190.16		190.16	
Orman Wilson, rod man.....	136.29		136.29	136.29		136.29	
L. C. Windenburgh, rod man.....	212.03		212.03	212.03		212.03	
D. B. Wynne, rod man.....	444.00		444.00	444.00		444.00	
Edward Van Kirk, rod man.....	2,972.41	197.48	4,169.89	3,984.98	178.50	4,163.48	186.97
Extra help—survey.....	525.11		525.11	525.11		525.11	
Departmental transportation.....							
<b>Total.....</b>	<b>\$45,561.67</b>	<b>\$ 4,075.89</b>	<b>\$ 49,637.56</b>	<b>\$44,884.80</b>	<b>\$ 3,002.97</b>	<b>\$ 47,887.77</b>	<b>\$ 1,049.30</b>



## SCHEDULE NO. 46

DEPARTMENT OF ROAD CONSTRUCTION—JULY 1, 1922 TO JUNE 30, 1923

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
F. H. Mann, construction engineer	\$ 4,425.00	\$ 453.31	\$ 4,878.31	\$ 4,425.00	\$ 410.10	\$ 4,835.10	\$ 43.21
H. K. Davis, chief inspector	3,200.00	640.01	3,840.01	3,200.00	635.72	3,835.72	4.29
G. S. Foster, general inspector	3,200.00	432.64	3,632.64	3,200.00	427.30	3,627.30	5.34
H. O. Hickok, right-of-way agent	500.00	237.19	737.19	500.00	130.08	630.08	107.11
Mrs. Lella Vanderlinden, stenographer	1,220.80		1,220.80	916.30		916.30	304.50
Departmental transportation		1,297.67	1,297.67				1,297.67
Totals	\$12,545.80	\$ 3,000.82	\$15,606.62	\$12,241.30	\$ 1,603.20	\$13,844.50	\$ 1,762.12

## SCHEDULE NO. 47

DEPARTMENT OF ROAD CONSTRUCTION—MACHINERY AND EQUIPMENT DIVISION  
JULY 1, 1922 TO JUNE 30, 1923

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
R. W. Clyde, superintendent	\$ 2,750.00	\$ 53.47	\$ 2,803.47				\$ 2,803.47
Chas. Kinderman, shop foreman	2,700.00	64.66	2,764.66				2,764.66
F. E. Boen, storekeeper	1,800.00		1,800.00				1,800.00
M. B. Starr, clerk	511.11	3.20	514.31				514.31
Earl Enke, clerk	1,415.00		1,415.00				1,415.00
Geo. Hayworth, watchman	900.00		900.00				900.00
J. H. McKinney, watchman	273.33		273.33				273.33
Buildings and grounds		30,035.44	30,035.44				30,035.44
Extra help, mechanics	42,145.63	250.52	42,396.15				42,396.15
Totals	\$52,495.07	\$30,497.29	\$82,992.36				\$82,992.36

## SCHEDULE NO. 48

DEPARTMENT OF ROAD MAINTENANCE—JULY 1, 1922 TO JUNE 30, 1923

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
W. H. Root, maintenance engineer	\$ 4,425.00	\$ 364.87	\$ 4,789.87				\$ 4,789.87
T. R. Perry, asst. maintenance engineer	346.77	44.32	391.00				391.00
O. M. Briley, maintenance superintendent	1,303.05		1,303.05				1,303.05
Norma Greer, stenographer	1,155.00		1,155.00				1,155.00
Departmental transportation		737.62	737.62				737.62
Totals	\$ 7,229.82	\$ 1,146.81	\$ 8,376.63				\$ 8,376.63

## SCHEDULE NO. 49

MAINTENANCE DEPARTMENT—TRAFFIC CENSUS—JULY 1, 1922 TO JUNE 30, 1923

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
W. R. Lucas, instrument man	\$ 350.00	\$ 5.68	\$ 355.68				\$ 355.68
C. K. Malcolm, rod man	262.83	4.84	267.67				267.67
Maurice Norland, rod man	294.19		294.19				294.19
Henry Kastrup, rod man	11.59	5.32	16.91				16.91
Joseph Linnan, rod man	22.16		22.16				22.16
Totals	\$ 950.77	\$ 15.84	\$ 966.61				\$ 966.61

## SCHEDULE NO. 50

BRIDGE DEPARTMENT—JULY 1, 1922 TO JUNE 30, 1923

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
J. H. Ames, bridge engineer	\$ 4,425.00	\$ 283.47	\$ 4,708.47	\$ 2,212.49	\$ 64.97	\$ 2,277.46	\$ 2,431.01
E. W. Blumenschein, asst. bridge engineer	3,400.00	217.45	3,617.45	1,009.93	113.07	1,813.00	1,804.45
W. N. Adams, chief bridge designer	3,000.00	4.10	3,004.10	2,072.50	3.10	2,075.60	928.50
L. L. Clement, bridge designer	2,250.00	334.48	2,584.48	1,125.00	215.32	1,340.32	1,244.16
R. E. Braun, bridge designer	2,600.00	134.22	2,734.22	2,071.28	129.54	2,200.82	533.40
M. G. Spangler, bridge designer	2,500.00	39.17	2,539.17	792.60	39.17	831.86	1,707.31
L. J. Wallis, bridge designer	2,400.00		2,400.00	1,667.00		1,667.00	733.00
C. H. Cook, bridge draftsman	2,325.00	60.39	2,385.39	1,294.30	60.39	1,354.69	1,030.70
J. E. Hiland, bridge draftsman	2,225.00		2,225.00	1,220.32		1,220.32	1,004.68
Hubert Schmidt, bridge draftsman	2,225.00		2,225.00	1,232.00		1,232.00	992.31
J. H. DeLaHunt, bridge draftsman	2,225.00		2,225.00	996.61		996.61	1,228.39
Paul Barnard, bridge draftsman	2,225.00		2,225.00	913.19		913.19	1,311.81
H. A. Hanson, bridge draftsman	2,000.00		2,000.00	1,279.11		1,279.11	720.89
J. O. Nichols, bridge draftsman	1,651.37		1,651.37	1,304.39		1,304.39	346.98
A. E. Jarvis, bridge draftsman	312.50		312.50	257.50		257.50	55.00
H. W. Schneider, bridge draftsman	1,525.00		1,525.00	1,253.89		1,253.89	271.11
R. H. Avenell, bridge draftsman	540.00		540.00	384.76		384.76	155.24
W. P. Nichols, field engineer	2,700.00	42.89	2,742.89	2,628.00	42.89	2,670.89	72.00
Harry Bowman, R. R. crossing engineer	2,615.00	130.73	2,745.73	2,317.09	114.33	2,431.42	314.31
Frank B. Howell, record clerk	1,725.00		1,725.00	862.49		862.49	862.51
Marie Govey, stenographer	1,390.00		1,390.00				1,390.00
Extra help	57.20		57.20	57.20		57.20	
Extra transportation		108.40	108.40		108.40	108.40	
Totals	\$46,316.07	\$ 1,355.30	\$47,671.37	\$27,642.43	\$ 891.18	\$28,533.61	\$19,137.76



## SCHEDULE NO. 51

DRAINAGE DEPARTMENT—JULY 1, 1922 TO JUNE 30, 1923

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
J. B. Spiegel, hydraulic engineer	\$ 1,185.60	\$ 317.30	\$ 1,502.90				\$ 1,502.90
Gauge readers	486.39	6.53	492.92				492.92
Departmental transportation		134.85	134.85				134.85
Totals	\$ 1,671.99	\$ 458.68	\$ 2,130.67				\$ 2,130.67

## SCHEDULE NO. 52

WOMEN'S DRAFTING DEPARTMENT—JULY 1, 1922 TO JUNE 30, 1923

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
W. T. Ide, chief draftsman	\$ 2,549.44	\$ 5.85	\$ 2,555.29	\$ 1,658.55	\$ 5.85	\$ 1,664.40	\$ 890.89
Violet Roberson, draftswoman	1,500.00		1,500.00	1,120.01		1,120.01	379.99
Belle Courtney, draftswoman	1,407.25		1,407.25	1,027.45		1,027.45	379.80
E. Carlotta Howard, draftswoman	1,258.14		1,258.14	910.61		910.61	347.53
Enid Ruston, draftswoman	174.19		174.19	124.19		124.19	50.00
E. Irene Highley, draftswoman	134.52	4.28	138.80	116.92	4.28	121.20	17.60
Lena Alt, draftswoman	250.00	4.33	254.33	240.00	4.33	244.33	10.00
Ruth Steiglitz, draftswoman	1,120.97		1,120.97	1,023.89		1,023.89	97.08
June Erickson, draftswoman	1,230.00		1,230.00	1,195.15		1,195.15	34.85
Mrs. J. C. Nichols, draftswoman	1,138.33		1,138.33	443.83		443.83	694.50
Edna Unger, draftswoman	388.17		388.17	278.80		278.80	109.37
Rowena C. Merritt, draftswoman	780.68		780.68	502.00		502.00	278.68
Francis McCall, draftswoman	286.00		286.00	256.85		256.85	29.15
Jessie Brooks, draftswoman	130.00		130.00	77.40		77.40	52.60
Evelyn Compton, tracer	900.00		900.00	491.98		491.98	408.02
Mrs. Kenneth Rossiter, tracer	970.00		970.00	680.71		680.71	289.29
Eloise White, tracer	934.66		934.66	731.48		731.48	203.18
LaVera Stark, tracer	302.81		302.81	153.40		153.40	149.41
Beatrice Nervig, tracer	617.52		617.52	310.90		310.90	306.62
Louise Carstensen, tracer	502.10		502.10	538.20		538.20	22.90
Bernice H. Schnee, tracer	240.80		240.80	240.80		240.80	
Mrs. C. W. Jones, tracer	403.22		403.22	314.35		314.35	88.87
Ethel Lyon, tracer	178.71		178.71	161.40		161.40	17.31
Rose Roberson, tracer	130.20		130.20	120.30		120.30	9.90
Grace V. Clarke, tracer	294.35		294.35	226.51		226.51	67.84
Elizabeth Seovel, tracer	158.40		158.40	154.80		154.80	3.60
Ruth Winter, tracer	102.00		102.00	89.10		89.10	12.90
Frank Paladin, tracer	577.50		577.50	538.00		538.00	39.50
H. R. Wilder, tracer	439.10		439.10	405.38		405.38	33.72
Totals	\$19,158.06	\$ 14.46	\$19,172.52	\$14,225.96	\$ 14.46	\$14,240.42	\$ 4,932.10

## SCHEDULE NO. 53

DEPARTMENT OF MATERIALS AND TESTS—JULY 1, 1922 TO JUNE 30, 1923

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
R. W. Crum, engr. materials materials and tests	3,000.00	60.96	3,060.96	4,250.00	\$ 283.38	\$ 4,533.38	\$ 305.31
Bert Myers, asst. engineer materials and tests	3,000.00	60.96	3,060.96	3,000.00	60.96	3,060.96	
Millie Oswalt, stenographer	628.67		628.67	628.67		628.67	
Material Resource Division							
W. H. Douglas, general inspector	2,475.00	610.67	3,085.67	2,475.00	609.22	3,084.22	1.45
Mark Morris, inspector	2,375.00	176.18	2,551.18	2,375.00	176.18	2,551.18	
Chas. S. Meyer, inspector	962.50	44.70	1,007.20	962.50	29.05	991.55	15.65
R. M. Combs, inspector	980.00		980.00	420.00		420.00	560.00
E. B. Lambert, inspector	791.32	70.27	861.59	791.32	32.07	823.39	38.20
W. E. Pugsley, inspector	316.67	22.47	339.14				339.14
N. A. Maritz, laboratory asst. Ames Laboratory	350.22	7.20	357.42	350.22	7.20	357.42	
Paul Critz, laboratory chief	2,500.00	163.62	2,663.62	2,500.00	163.62	2,663.62	
B. L. Bowling, laboratory chief	965.28	87.54	1,052.82	965.28	87.54	1,052.82	
K. M. Dewey, chemist	2,043.55		2,043.55	2,043.55		2,043.55	
H. A. Christopherson, asst. chemist	1,228.75		1,228.75	1,160.50		1,160.50	68.25
Jay Elliot, laboratory asst.	1,817.77	101.10	1,918.87	1,716.67	96.75	1,813.42	4.35
Max Brintnall, laboratory asst.	193.55		193.55	193.55		193.55	
E. M. Ward, laboratory asst.	262.50		262.50	262.50		262.50	
R. C. Hoon, laboratory asst.	216.67		216.67	216.67		216.67	
A. F. Paul, laboratory asst.	1,530.64	50.32	1,580.96	1,530.64	41.57	1,572.21	8.75
W. McCrory, laboratory asst.	216.45		216.45	216.45		216.45	
Earl Elliot, laboratory asst.	854.69	93.39	948.08	854.69	93.39	948.08	
Jack Diercks, laboratory asst.	374.27	8.95	383.22	374.27	8.95	383.22	
James W. Johnson, laboratory asst.	1,408.02	99.58	1,507.60	1,408.02	99.58	1,507.60	
N. A. Maritz, laboratory asst.	131.19	4.41	135.60	131.19	4.41	135.60	
Ted Russell, laboratory asst.	439.60	3.70	443.30	439.60	3.70	443.30	
J. L. Anderson, inspector	775.00		775.00	775.00		775.00	
L. W. Wood, inspector	651.07		651.07	651.07		651.07	
G. A. Pugsley, inspector	670.00	118.19	788.19	670.00	89.19	759.19	29.00
R. M. Combs, inspector	364.00		364.00	364.00		364.00	
L. G. Banner, inspector	590.00	30.10	620.10	590.00	30.10	620.10	
M. L. Vanderlinden, inspector	544.84	17.60	562.44	544.84		544.84	417.60
R. H. Avenell, inspector	265.50	8.51	274.01	265.50	8.51	274.01	
Davenport Laboratory							
Vere Ewing, laboratory chief	2,065.60	194.16	2,259.76	2,065.60	194.16	2,259.76	
A. F. Paul, laboratory chief	357.86	2.27	360.13	344.36	2.27	346.63	13.50
J. R. Clements, laboratory asst.	1,479.84	22.55	1,502.39	1,479.84	22.55	1,502.39	
Clark A. Pursell, laboratory asst.	1,200.00		1,200.00	1,200.00		1,200.00	
Boyd Ellis, laboratory asst.	190.00	4.53	194.53	190.00		190.00	4.53
C. R. Darland, laboratory asst.	233.33	7.49	240.82	233.33	7.49	240.82	
J. D. Kaser, laboratory asst.	191.61	8.41	200.02	191.61		191.61	8.41
L. G. Banner, inspector	140.00		140.00	140.00		140.00	
Ralph Clover, inspector	210.00	31.57	241.57	210.00	31.57	241.57	
Des Moines Laboratory							
M. D. Wickware, laboratory chief	2,000.00		2,000.00	2,000.00		2,000.00	
Vere Ewing, laboratory chief	329.31	64.43	393.74	329.31	64.43	393.74	
Herbert Plagman, laboratory asst.	776.45	115.65	892.10	776.45	115.65	892.10	
Mark Critz, laboratory asst.	286.67		286.67	286.67		286.67	
Maxwell Joy, laboratory asst.	263.33		263.33	263.33		263.33	
T. H. Rodgers, laboratory asst.	174.19		174.19	174.19		174.19	
W. McCrory, laboratory asst.	617.42		617.42	617.42		617.42	
Fredrick Bender, laboratory asst.	522.58		522.58	117.58		117.58	405.00
P. C. Englert, laboratory asst.	293.33		293.33	293.33		293.33	
Fred E. Gulick, inspector	261.29	1.61	262.90	261.29	1.61	262.90	



## IOWA STATE HIGHWAY COMMISSION

## SCHEDULE NO. 53—Continued

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
H. L. Hollbrook, inspector	121.50		121.50	121.50		121.50	
Mason City Laboratory							
B. L. Bowling, laboratory chief	1,534.72	292.17	1,826.89	1,534.72	292.17	1,826.89	
J. H. Will, laboratory asst.	1,538.06	16.45	1,554.51	1,538.06	16.45	1,554.51	
Chas. LaRue, laboratory asst.	1,538.06	29.85	1,567.91	1,538.06	29.85	1,567.91	
Edward P. McCoy, laboratory asst.	712.90		712.90	712.90		712.90	
Jack Dierks, laboratory asst.	456.38	7.00	463.38	456.38	7.00	463.38	
R. C. Kash, laboratory asst.	115.16		115.16	115.16		115.16	
R. S. Davidson, laboratory asst.	164.03		164.03	164.03		164.03	
W. David Jones, laboratory asst.	500.00		500.00	500.00		500.00	
K. P. Ferris, laboratory asst.	275.00		275.00				275.00
Chas. S. Meyer, inspector	146.50		146.50	46.50		46.50	700.00
Walter Callahan, inspector	300.00		300.00	150.00		150.00	150.00
Office rental		1,300.00	1,300.00				1,300.00
Extra help—miscellaneous	294.90	149.27	444.17	2,091.45	78.50	2,170.00	32.31
Departmental transportation		5,054.00	5,054.00				5,054.00
Totals	866,612.04	\$ 9,570.55	876,182.59	852,794.08	\$ 2,786.17	855,580.25	\$ 10,602.34

## SCHEDULE NO. 54

EQUIPMENT AND SUPPLIES—JULY 1, 1922 TO JUNE 30, 1923

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
Blank, circular letters, etc.	\$ 5,646.38		5,646.38				\$ 2,440.54
Maps	243.83		243.83				243.83
Road guides	777.14		777.14				777.14
Photos, slides, cuts	480.95		480.95				480.95
Printing paper, bulletins and spec.	4,730.50		4,730.50				4,730.50
Express	3,392.02		3,392.02	36.80		36.80	2,365.82
Freight and drayage	1,300.42		1,300.42	17.52		17.52	1,282.90
Postage	6,550.57		6,550.57	15.24		15.24	6,535.33
Telegraph	411.83		411.83	4.41		4.41	407.42
Telephone	2,105.27		2,105.27	29.77		29.77	2,075.50
Bridge department supplies	27.47		27.47	1.35		1.35	26.12
Drafting department supplies	5,493.49		5,493.49				5,493.49
Drainage department supplies	39.14		39.14				39.14
Machinery and equipment, dept. supplies	29,653.30		29,653.30				29,653.30
Material and tests, dept. supplies	4,518.96		4,518.96	3,876.10		3,876.10	642.86
Road department supplies	4,380.74		4,380.74	756.27		756.27	3,624.47
State fair exhibit	149.18		149.18				149.18
Furniture and fixtures	2,547.33		2,547.33				2,547.33
Stationery and office supplies	4,945.97		4,945.97	5.40		5.40	4,940.57
Motor vehicle expense—field	8,805.74		8,805.74	127.30		127.30	8,678.44
Maintenance dept. supplies	50.71		50.71				50.71
Blue printing, etc.				54,121.30		54,121.30	
Totals	\$ 18,409,121.34	\$ 0,130.82	\$ 18,409,252.16	\$ 61,300.52	\$ 601,300.52	\$ 672,601.04	\$ 17,736,651.12

## FINANCIAL STATEMENT

## SCHEDULE NO. 55

DISTRICT OFFICE NO. 1—JULY 1, 1922 TO JUNE 30, 1923

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
W. F. Beard, district engineer	\$ 2,225.00	\$ 1,230.18	\$ 3,455.18	\$ 1,236.46	\$ 1,014.00	\$ 2,250.46	\$ 2,204.72
L. L. Clement, asst. dist. engineer	466.42	305.40	771.82	111.33	45.42	156.75	615.07
H. O. Hickok, asst. dist. engineer	2,225.32	1,029.49	3,254.81	852.70	974.97	1,827.67	1,427.14
E. S. Leitch, road designer	2,147.18	19.00	2,166.18	1,929.02	19.00	1,948.02	218.16
Ernest Bierbaum, draftsman	243.86		243.86	214.98		214.98	28.88
Geo. A. Foster, draftsman	239.50	22.16	261.66	211.50	21.16	232.66	28.00
C. M. Keworthby, draftsman	270.00	12.40	282.40	210.00		210.00	72.40
Edw. Boston, draftsman	1,025.81		1,025.81	915.01		915.01	110.80
A. T. Khoo, draftsman	700.00		700.00	628.00		628.00	72.00
Carroll McCarthy, draftsman	517.74		517.74	517.74		517.74	
Edna Unger, stenographer	566.00		566.00	50.74		50.74	515.26
Mrs. Berna Doughty, stenographer	330.00		330.00				330.00
Extra help	132.07	3.06	135.13	131.26		131.26	4.87
Totals	112,417.96	\$ 3,117.69	115,535.65	\$ 7,253.33	\$ 2,075.24	9,328.57	\$ 10,607.08

## SCHEDULE NO. 56

DISTRICT OFFICE NO. 2—JULY 1, 1922 TO JUNE 30, 1923

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
Raymond Zack, dist. engr.	\$ 3,325.00	\$ 303.78	\$ 3,628.78	\$ 1,845.52	\$ 177.02	\$ 2,022.54	\$ 1,606.24
T. R. Perry, asst. dist. engr.	2,476.33	272.97	2,749.30	556.48	100.27	656.75	2,092.55
J. S. Percival, designer	1,484.40	37.48	1,521.88	1,449.95	22.80	1,472.75	49.13
E. B. Gordon, resident engr.	754.84		754.84	714.62		714.62	40.22
W. D. Ross, resident engr.	765.00		765.00	708.00		708.00	57.00
Harold Wilson, draftsman	481.13		481.13	462.13		462.13	19.00
Paul Hertwig, inspector	688.49		688.49	521.77		521.77	166.72
Amel Reichenstein, inspector	501.11		501.11	501.11		501.11	
Beatrice Doyle, stenographer	929.00		929.00				929.00
Express	8.32		8.32				8.32
Freight and drayage	2.00		2.00				2.00
Office rental	1,923.97		1,923.97				1,923.97
Telegraph and telephone	180.41		180.41				180.41
Extra supplies	88.32		88.32				88.32
Extra help	300.33		300.33	247.10		247.10	53.23
Departmental transportation	376.40		376.40				376.40
Totals	\$ 11,825.86	\$ 2,396.64	\$ 14,222.50	\$ 7,152.09	\$ 803.63	\$ 7,955.72	\$ 6,266.78



## SCHEDULE NO. 57

DISTRICT OFFICE NO. 3-JULY 1, 1922 TO JUNE 30, 1923

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
E. W. Dunn, dist. engr.	\$ 2,800.00	1,002.43	\$ 3,802.43	\$ 1,634.77	\$ 649.98	\$ 2,284.75	\$ 2,517.68
E. Capel, asst. dist. engr.	2,800.00	1,207.25	4,007.25	2,672.90	1,007.18	3,680.08	307.17
H. E. Rydman, designer	146.00	146.00	292.00	146.00	146.00	292.00	0.00
W. P. Lindauer, designer	1,200.00	9.82	1,209.82	1,128.64	2.35	1,130.99	78.83
P. W. Hildebrand, resident engr.	833.10	0.00	833.10	0.00	0.00	0.00	833.10
S. A. Schacke, resident engr.	400.50	0.00	400.50	400.50	0.00	400.50	0.00
D. W. Townsend, resident engr.	525.00	0.00	525.00	525.00	0.00	525.00	0.00
W. G. White, resident engr.	302.98	0.00	302.98	302.98	0.00	302.98	0.00
C. B. Zorn, resident engr.	516.13	0.00	516.13	516.13	0.00	516.13	0.00
Eugene Cook, chief of party	730.44	0.00	730.44	728.46	0.00	728.46	1.98
E. B. Lambert, inspector	122.42	52.79	175.21	122.42	0.00	122.42	52.79
L. W. Wood, inspector	604.83	90.41	695.24	585.70	0.00	585.70	109.54
E. F. Blair, rod man	90.00	7.36	97.36	90.00	0.00	90.00	7.36
Edna Eckert, stenographer	1,200.00	0.00	1,200.00	1,200.00	0.00	1,200.00	0.00
Telegraph and telephone	290.00	0.00	290.00	3.53	2.35	5.88	284.12
Office supplies	0.00	1.50	1.50	0.00	0.00	0.00	1.50
Extra help	307.61	0.00	307.61	61.14	0.00	61.14	246.47
Departmental transportation	25.00	0.00	25.00	0.00	0.00	0.00	25.00
<b>Totals</b>	<b>\$13,318.39</b>	<b>\$ 2,436.39</b>	<b>\$15,754.78</b>	<b>\$ 8,849.72</b>	<b>\$ 1,713.04</b>	<b>\$10,562.76</b>	<b>\$ 5,192.02</b>

## FINANCIAL STATEMENT

## SCHEDULE NO. 59

DISTRICT OFFICE NO. 5-JULY 1, 1922 TO JUNE 30, 1923

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
J. S. Morrison, dist. engr.	\$ 2,800.00	724.38	\$ 3,524.38	\$ 2,000.35	\$ 476.00	\$ 2,476.35	\$ 1,048.03
W. J. Smith, asst. dist. engr.	2,800.00	211.00	3,011.00	1,800.50	115.50	1,916.00	1,095.00
H. E. Mack, designer	2,000.00	1.50	2,001.50	1,500.00	0.00	1,500.00	501.50
John T. resident engineer	412.61	0.00	412.61	412.61	0.00	412.61	0.00
A. W. Nelson, resident engr.	0.00	0.00	0.00	508.00	0.00	508.00	0.00
John G. Butler, chief of party	124.10	0.00	124.10	124.10	0.00	124.10	0.00
Leon F. instrument man	585.00	0.00	585.00	585.00	0.00	585.00	0.00
Joe McNaughton, instrument man	400.00	9.30	409.30	400.00	9.30	409.30	0.00
E. A. Prentiss, inspector	1,082.42	32.30	1,114.72	308.00	29.78	337.78	776.94
Ed Smith, stenographer	1,000.00	0.00	1,000.00	1,000.00	0.00	1,000.00	0.00
Express	2.28	2.28	4.56	1.41	1.41	2.82	1.74
Postage	102.34	0.00	102.34	0.00	0.00	0.00	102.34
Telegraph and telephone	308.00	0.00	308.00	0.00	0.00	0.00	308.00
Office supplies	14.45	14.45	28.90	2.30	2.30	4.60	24.30
Extra help	424.30	0.00	424.30	424.30	0.00	424.30	0.00
Departmental transportation	833.50	0.00	833.50	833.50	0.00	833.50	0.00
<b>Totals</b>	<b>\$14,025.07</b>	<b>\$ 2,508.08</b>	<b>\$16,533.15</b>	<b>\$ 9,942.68</b>	<b>\$ 634.30</b>	<b>\$10,576.98</b>	<b>\$ 5,956.17</b>

## SCHEDULE NO. 60

DISTRICT OFFICE NO. 6-JULY 1, 1922 TO JUNE 30, 1923

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
L. M. Martin, dist. engr.	\$ 2,400.00	\$ 144.79	\$ 2,544.79	\$ 1,276.94	\$ 191.40	\$ 1,468.34	\$ 1,076.45
C. D. Weller, asst. dist. engr.	2,800.00	497.28	3,297.28	1,175.50	288.18	1,463.68	1,833.60
D. M. Finley, resident engr.	500.00	0.00	500.00	500.00	0.00	500.00	0.00
John McFarlane, resident engr.	458.07	0.00	458.07	458.07	0.00	458.07	0.00
J. L. Anderson, inspector	775.00	80.71	855.71	1,000.71	0.00	1,000.71	0.00
Leon Krings, clerk	900.00	0.00	900.00	620.00	0.00	620.00	280.00
H. O. Beadle, stenographer	180.00	0.00	180.00	177.45	0.00	177.45	2.55
E. Irene Higley, draftsman	900.00	0.00	900.00	925.10	0.00	925.10	0.00
H. L. Frost, janitor	120.00	0.00	120.00	120.00	0.00	120.00	0.00
Express	2.21	2.21	4.42	0.00	0.00	0.00	4.42
Freight and drayage	1.10	1.10	2.20	0.00	0.00	0.00	2.20
Telegraph and telephone	1.00	1.00	2.00	0.00	0.00	0.00	2.00
Office supplies	170.80	170.80	341.60	0.00	0.00	0.00	341.60
Extra help	306.31	4.22	310.53	306.31	0.00	306.31	4.22
Departmental transportation	544.41	0.00	544.41	544.41	0.00	544.41	0.00
<b>Totals</b>	<b>\$10,365.00</b>	<b>\$ 2,348.51</b>	<b>\$12,713.51</b>	<b>\$ 5,470.16</b>	<b>\$ 470.90</b>	<b>\$ 5,941.06</b>	<b>\$ 6,772.45</b>

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
W. M. Lee, district engineer	\$ 2,225.00	\$ 611.40	\$ 2,836.40	\$ 1,008.47	\$ 400.51	\$ 1,408.98	\$ 1,427.42
L. S. Gates, asst. dist. engr.	2,706.00	1,005.88	3,711.88	831.79	342.87	1,174.66	2,537.22
J. W. Brandt, road designer	625.00	10.00	635.00	635.00	0.00	635.00	0.00
E. C. Lutz, resident engr.	546.50	0.00	546.50	546.50	0.00	546.50	0.00
A. A. Peterson, resident engr.	416.00	0.00	416.00	416.00	0.00	416.00	0.00
J. S. Benson, instrument man	283.50	0.00	283.50	283.50	0.00	283.50	0.00
H. D. Carothers, instrument man	451.32	0.00	451.32	451.32	0.00	451.32	0.00
O. M. Jones, instrument man	438.71	0.00	438.71	438.71	0.00	438.71	0.00
Raymond Justen, instrument man	412.00	0.00	412.00	412.00	0.00	412.00	0.00
J. F. Sprouts, instrument man	525.00	0.00	525.00	525.00	0.00	525.00	0.00
E. E. White, instrument man	450.00	0.00	450.00	450.00	0.00	450.00	0.00
O. M. Griffith, chief of party	875.00	0.00	875.00	875.00	0.00	875.00	0.00
J. A. Ryan, chief of party	87.50	16.50	104.00	104.00	0.00	104.00	0.00
T. E. Riley, chief of party	624.50	8.30	632.80	624.50	1.34	625.84	7.96
Ray Beals, rod man	265.00	0.00	265.00	265.00	0.00	265.00	0.00
Orville Bowman, rod man	154.44	0.00	154.44	154.44	0.00	154.44	0.00
Ray Richards, stenographer	725.81	0.00	725.81	725.81	0.00	725.81	0.00
Oval M. Foster, stenographer	354.84	0.00	354.84	354.84	0.00	354.84	0.00
Express	4.95	4.95	9.90	0.00	0.00	0.00	9.90
Office rental	540.00	540.00	1,080.00	0.00	0.00	0.00	1,080.00
Telegraph and telephone	180.45	180.45	360.90	0.00	0.00	0.00	360.90
Office supplies	127.60	127.60	255.20	0.00	0.00	0.00	255.20
Extra help	428.00	1.00	429.00	429.00	1.00	430.00	0.00
Departmental transportation	385.40	0.00	385.40	385.40	0.00	385.40	0.00
<b>Totals</b>	<b>\$13,707.95</b>	<b>\$ 2,028.29</b>	<b>\$15,736.24</b>	<b>\$ 8,892.86</b>	<b>\$ 774.02</b>	<b>\$ 9,666.88</b>	<b>\$ 6,069.36</b>



## IOWA STATE HIGHWAY COMMISSION

## SCHEDULE NO. 61

DISTRICT OFFICE NO. 1—JULY 1, 1922 TO JUNE 30, 1923

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
J. A. Paulsen, district engr.	\$ 2,325.00	\$ 459.48	\$ 2,784.48	\$ 1,429.50	\$ 356.15	\$ 1,785.65	\$ 2,008.77
I. E. Goodrich, asst. district engr.	2,800.00	542.67	3,342.67	947.30	246.50	1,193.80	2,148.87
O. L. Huffman, road designer	2,500.00	332.91	2,832.91	2,235.31	111.90	2,347.21	285.74
L. E. Clayton, resident engr.	516.13	.....	516.13	516.13	.....	516.13	.....
A. F. Miller, resident engr.	497.79	.....	497.79	432.86	.....	432.86	64.93
C. W. Baldwin, instrument man	541.94	.....	541.94	537.50	.....	537.50	4.44
W. Roy Biskamp, instrument man	476.50	.....	476.50	441.13	.....	441.13	35.36
A. L. Hertz, instrument man	390.84	.....	390.84	390.84	.....	390.84	.....
C. F. Lechner, instrument man	378.87	.....	378.87	378.87	.....	378.87	.....
J. B. Durham, inspector	825.00	.....	825.00	825.00	.....	825.00	.....
Robert Elderton, inspector	370.87	.....	370.87	370.87	.....	370.87	.....
Lena Alt, draftsman	1,250.00	.....	1,250.00	1,146.88	.....	1,146.88	103.12
Elbel Paulsen, stenographer	882.35	.....	882.35	250.62	.....	250.62	631.73
Express	9.15	.....	9.15	.....	.....	.....	9.15
Office rental	1,060.00	.....	1,060.00	.....	.....	.....	1,060.00
Telegraph and telephone	308.96	.....	308.96	.....	.....	.....	308.96
Office supplies	110.95	.....	110.95	.....	.....	.....	110.95
Extra help	148.71	.....	148.71	228.71	.....	228.71	30.00
Departmental transportation	664.80	.....	664.80	.....	.....	.....	664.80
Totals	\$15,354.69	\$ 3,318.50	\$18,673.19	\$10,301.66	\$ 615.01	\$10,916.67	\$ 7,756.52

## FINANCIAL STATEMENT

## SCHEDULE NO. 63

DISTRICT OFFICE NO. 9—JULY 1, 1922 TO JUNE 30, 1923

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
W. O. Price, district engr.	\$ 3,400.00	\$ 1,718.30	\$ 5,118.30	\$ 1,363.61	\$ 1,131.66	\$ 2,495.27	\$ 2,623.03
Vernon G. Gould, asst. dist. engr.	2,537.50	154.01	2,691.51	1,406.49	100.20	1,506.69	1,184.82
W. H. Richards, road designer	1,800.00	16.40	1,816.40	1,656.35	16.40	1,672.75	143.65
Charles Bantz, resident engr.	122.33	.....	122.33	122.33	.....	122.33	.....
W. C. Everett, chief of party	857.17	4.82	861.99	857.17	.....	857.17	4.82
Walter Handy, instrument man	144.86	4.28	149.14	122.30	.....	122.30	26.84
Marceline Moss, rod man	490.32	12.43	502.75	486.32	.....	486.32	16.43
Martin Sheehan, rod man	106.67	.....	106.67	106.67	.....	106.67	.....
Dorothy Meyers, stenographer	325.66	.....	325.66	325.66	.....	325.66	.....
Ross Wright, stenographer	440.00	.....	440.00	440.00	.....	440.00	.....
Fred Herwig, inspector	132.64	58.29	190.93	.....	58.29	58.29	132.64
J. R. Pulley, janitor	40.00	.....	40.00	.....	.....	.....	40.00
L. C. Whitten, janitor	80.00	.....	80.00	.....	.....	.....	80.00
Express	7.31	.....	7.31	.....	.....	.....	7.31
Postage	90.00	.....	90.00	.....	.....	.....	90.00
Telegraph and telephone	110.70	.....	110.70	.....	.....	.....	110.70
Office supplies	40.32	.....	40.32	.....	.....	.....	40.32
Extra help	567.50	3.20	570.70	516.08	.....	516.08	54.62
Departmental transportation	373.63	.....	373.63	.....	.....	.....	373.63
Totals	\$11,594.25	\$ 2,023.74	\$13,618.00	\$ 6,794.70	\$ 1,315.75	\$ 8,110.45	\$ 5,507.55

## SCHEDULE NO. 62

DISTRICT OFFICE NO. 8—JULY 1, 1922 TO JUNE 30, 1923

Name	Paid from Maintenance Fund			Charged to Federal Aid Engineering Fund			Net from Maintenance Fund
	Salary	Expense	Total	Salary	Expense	Total	
J. F. Reynolds, dist. engr.	\$ 2,400.00	\$ 1,255.00	\$ 3,655.00	\$ 947.73	\$ 575.30	\$ 1,523.03	\$ 2,131.97
A. A. Baustian, asst. district engr.	2,800.00	261.58	3,061.58	968.12	94.88	1,063.00	1,998.58
M. E. Johnson, road designer	925.98	14.74	940.72	918.84	.....	918.84	24.88
S. W. O'Brien, resident engr.	1,319.35	23.72	1,343.07	1,219.35	23.72	1,243.07	99.99
H. R. Cioyka, ins. inspector	1,020.00	630.30	1,650.30	220.00	46.31	266.31	1,384.00
J. H. Richards, draftsman	975.07	63.76	1,038.83	975.07	63.76	1,038.83	.....
Grace Baustian, stenographer	1,005.00	.....	1,005.00	66.87	.....	66.87	938.13
Express	5.00	.....	5.00	.....	.....	.....	5.00
Office rental	720.00	.....	720.00	.....	.....	.....	720.00
Postage	80.50	.....	80.50	.....	.....	.....	80.50
Telegraph and telephone	150.96	.....	150.96	.....	.....	.....	150.96
Office supplies	38.31	.....	38.31	.....	.....	.....	38.31
Extra help	148.71	.....	148.71	148.71	.....	148.71	.....
Departmental transportation	406.37	.....	406.37	.....	.....	.....	406.37
Totals	\$15,427.11	\$ 3,654.88	\$19,081.99	\$ 5,484.60	\$ 802.96	\$ 6,287.56	\$ 12,794.43



## IOWA STATE HIGHWAY COMMISSION

## SCHEDULE NO. 64

APPROPRIATION STATE HIGHWAY COMMISSION JULY 1, 1922 TO JUNE 30, 1923.

## DEBITS

Unexpended appropriation on July 1, 1922	\$113,603.42
Tax collected July, 1922	20,917.56
Tax collected September, 1922	19,229.22
Tax collected November, 1922	5,234.34
Tax collected December, 1922	1,564.09
Tax collected January, 1923	1,566.74
Tax collected February, 1923	121,142.85
Tax collected March, 1923	43,001.66
Tax collected April, 1923	12,491.63
Tax collected May, 1923	7,921.48
Tax collected June, 1923	10,971.59
Refunds—Miscellaneous	84,449.18
Refund—Federal aid engineering expense	302,149.52
	\$806,614.50

## CREDITS

Warrants issued in July, 1922	\$ 52,184.88
Warrants issued in August, 1922	46,327.73
Warrants issued in September, 1922	50,022.15
Warrants issued in October, 1922	55,130.12
Warrants issued in November, 1922	54,246.92
Warrants issued in December, 1922	48,510.64
Warrants issued in January, 1923	45,402.15
Warrants issued in February, 1923	39,308.66
Warrants issued in March, 1923	40,374.71
Warrants issued in April, 1923	50,111.46
Warrants issued in May, 1923	17,173.19
Warrants issued in June, 1923	83,122.04
Balance June 30, 1923	150,112.51
	\$806,614.50

## SCHEDULE NO. 65

Item	1919-1920	1920-1921	1921-1922	1922-1923
1 Commissioners	\$ 2,286.82	\$ 2,016.37	\$ 2,732.47	\$ 4,802.22
2 Administrative department	14,506.37	Note 1	Note 1	Note 1
3 Executive department	Note 2	5,768.71	5,870.01	5,270.50
4 Department purchases and accounts	Note 3	14,712.34	17,048.95	15,419.54
5 Accounting division	4,222.17	2,432.36	1,616.97	2,840.73
6 Department of road administration	3,342.28	3,147.61	3,131.14	3,017.78
7 Department of road design—Plans	778.09	834.66	1,919.05	2,139.95
8 Department of road design—Surveys	1,285.27	917.68	1,535.22	1,947.26
9 Department of road construction	1,144.42	2,280.68	161.06	1,702.12
10 Department of machinery and equipment	86,053.83	30,394.96	50,823.17	82,902.36
11 Department of road maintenance	4,401.65	5,597.63	7,912.71	8,226.62
12 Traffic census division	24.79		214.82	946.61
13 Bridge department	17,021.80	14,960.11	18,271.12	19,137.76
14 Drainage department	4,694.47	4,953.34	4,946.46	2,120.87
15 Women's drafting department	4,301.11	4,727.01	5,262.16	4,932.19
16 Department of materials and tests	907.52	719.59	4,152.01	10,003.61
17 Equipment and supplies	8,814.08	40,300.16	58,430.35	23,939.26
18 District offices	33,187.89	42,590.41	51,490.09	61,672.31
Totals	\$187,392.87	\$176,761.36	\$249,890.85	\$391,332.47
Deduct on account of refunds	6,112.10	44,883.39	67,900.70	\$84,449.18
Net totals	\$181,280.77	\$131,877.97	\$171,990.15	\$306,883.29

Note 1—Divided under Items 3 and 4.

Note 2—Previously included in Item 2.

Note 3—Previously included in Item 2.

\*Deducting \$84,449.18 refunded to the State Treasurer, the total cost of maintaining the Highway Commission for the year ended June 30, 1923, was \$166,903.29.

## FINANCIAL STATEMENT

## SCHEDULE NO. 66

APPROPRIATION FEDERAL AID ENGINEERING FUND JULY 1, 1922 TO JUNE 30, 1923.

## DEBITS

Unexpended appropriation July 1, 1922	\$111,436.54
Appropriation March 1, 1923	225,000.00
	\$336,436.54

## CREDITS

Expended in July, 1922	\$ 30,212.49
Expended in August, 1922	28,635.16
Expended in September, 1922	28,977.25
Expended in October, 1922	25,030.20
Expended in November, 1922	28,703.87
Expended in December, 1922	30,329.85
Expended in January, 1923	36,004.27
Expended in February, 1923	33,029.51
Expended in March, 1923	30,371.06
Expended in April, 1923	31,703.47
Expended in May, 1923	10,837.15
Expended in June, 1923	47,413.55
Balance June 30, 1923	\$214,277.62
	\$650,436.54







## SCHEDULE NO. 67—Continued

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County	Project No.	Miles	Reconnaissance	Survey	Profile	Specifications	Conferences	Records	Bridges and Culverts	Materials and Tests	Construction	Total
Calhoun	P-96	6.50		.63			6.45	19.71		13.52	54.22	88.03
Calhoun	P-107	6.24						6.00		5.12	23.86	33.98
Calhoun	B-1			2.01		29.51		15.94		1.90		33.31
Calhoun	C-27		92.67					23.75		18.32		106.08
Calhoun	C-99	8.88						25		35		1.34
Carroll	154	23.90		1,020.46	609.80	504.84	4.55	686.18	33.03	703.80	539.40	4,233.82
Carroll	P-11	14.00						1.04		1.07	7.81	11.12
Carroll	P-131	22.50						5.60		3.08		4.30
Carroll	P-224	22.50						4.17		4.27	19.90	28.34
Carroll	P-236	3.50		127.08	58.21	150.11		102.82		104.72	108.90	721.19
Carroll	B-1							2.00		38		2.18
Carroll	B-12							3.12	11.00	3.30		17.42
Carroll	B-113				30.00		9.90	183.04	578.42	187.84	33.46	1,094.16
Carroll	B-152				24.46		4.80	184.65	630.74	188.59		1,023.43
Carroll	B-153				67.87			30.07	35.49	30.78		164.21
Carroll	C-19			6.44				8.56		8.56	24.64	31.97
Case	44	19.60			1.80			51		51		2.70
Case	152	17.00						88.35		67.22	188.00	415.79
Case	B-100							90		90		43
Cedar	57	34.30	28.22	1,233.00	380.55		23.13	505.56	23.35	608.18	167.78	3,066.81
Cedar	P-113	29.07		218.47	868.12	23.83		380.34		300.17	170.08	2,100.47
Cedar	P-216	2.75	8.79	8.48	232.15	148.75	18.91	110.12		112.70		729.90
Cedar	B-204		16.67	14.84	258.29		1.61	112.67	331.41	115.35	10.57	658.91
Cedar	B-205		7.71	28.51	45.18		1.61	180.15	222.00	154.28	22.82	1,002.05
Cedar	B-228							29.86	105.98	30.56	1.56	165.96
Cedar	B-229						3.96	49.82	162.65	50.99	11.18	279.60
Cedar	T-538		9.73	607.35				225.11	162.65	230.40		1,122.57
Cedar	T-539			139.34	46.29			15.89		47.48		288.32
Cerro Gordo	115	22.07						44		45	2.08	2.97
Cerro Gordo	P-273	12.42	30.52	735.16	305.71	23.83		367.72		364.76	20.07	1,866.77
Cerro Gordo	B-1				2.89			12.46	40.86	12.75		66.94
Cerro Gordo	C-22							4.51		4.06	21.73	30.91
Cherokee	116	14.00						1.71		2.43	9.25	15.76
Cherokee	P-98	11.05						1.71		5.42	23.22	33.63
Cherokee	P-131	22.50		13.72	275.16			37.38		157.34	146.23	784.01
Cherokee	P-214	17.37		15.91	279.76			45.10		92.19	107.04	634.35
Cherokee	P-240	4.00	26.30		5.74		23.80	18.36		18.79	22.76	118.90
Cherokee	P-251	7.00		388.10				141.88		141.88		692.82
Cherokee	P-256	21.75	28.84		13.52	35.60	30.20	24.86		25.45	37.35	188.11
Cherokee	B-7							1.20	4.21	1.22		6.63

IOWA STATE HIGHWAY COMMISSION

FINANCIAL STATEMENT

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## IOWA STATE HIGHWAY COMMISSION

SCHEDULE NO. 67—Continued

County	Project No.	Miles	Reconstruc- tion	Survey	Profile	Specifica- tions	Confer- ences	Records	Bridges and Culverts	Materials and Tests	Construc- tion	Total
Crawford	P-151	25			2.50			1.75		1.25	5.25	11.17
Crawford	P-152	3.50		25.00			11.02	14.00		13.50		37.08
Crawford	P-153	8.15			2.08		3.97	1.22		1.38		13.72
Crawford	P-154	12.05	8.79	22.17	2.08			135.72		170.72		827.71
Crawford	P-155	12.05		24.50	8.06		6.07	22.91		36.00	67.55	141.51
Crawford	P-156	1.45			1.45		9.16	35.79	111.81	31.05	9.70	180.86
Dallas	P-157	22.25			7.25			4.24		4.24	10.00	25.00
Dallas	P-158	18.65		4.25				27.50		27.50	10.00	112.50
Dallas	P-159	41.75						31.65		31.65	10.00	112.50
Dallas	P-160	8.00						27.50		27.50	10.00	112.50
Dallas	P-161	10.00						31.65		31.65	10.00	112.50
Dallas	P-162	14.30		117.25	1.00			31.65		31.65	10.00	112.50
Dallas	P-163	11.75						31.65		31.65	10.00	112.50
Dallas	P-164	14.30						31.65		31.65	10.00	112.50
Dallas	P-165	11.75						31.65		31.65	10.00	112.50
Dallas	P-166	11.75						31.65		31.65	10.00	112.50
Dallas	P-167	11.75						31.65		31.65	10.00	112.50
Dallas	P-168	11.75						31.65		31.65	10.00	112.50
Dallas	P-169	11.75						31.65		31.65	10.00	112.50
Dallas	P-170	11.75						31.65		31.65	10.00	112.50
Dallas	P-171	11.75						31.65		31.65	10.00	112.50
Dallas	P-172	11.75						31.65		31.65	10.00	112.50
Dallas	P-173	11.75						31.65		31.65	10.00	112.50
Dallas	P-174	11.75						31.65		31.65	10.00	112.50
Dallas	P-175	11.75						31.65		31.65	10.00	112.50
Dallas	P-176	11.75						31.65		31.65	10.00	112.50
Dallas	P-177	11.75						31.65		31.65	10.00	112.50
Dallas	P-178	11.75						31.65		31.65	10.00	112.50
Dallas	P-179	11.75						31.65		31.65	10.00	112.50
Dallas	P-180	11.75						31.65		31.65	10.00	112.50
Dallas	P-181	11.75						31.65		31.65	10.00	112.50
Dallas	P-182	11.75						31.65		31.65	10.00	112.50
Dallas	P-183	11.75						31.65		31.65	10.00	112.50
Dallas	P-184	11.75						31.65		31.65	10.00	112.50
Dallas	P-185	11.75						31.65		31.65	10.00	112.50
Dallas	P-186	11.75						31.65		31.65	10.00	112.50
Dallas	P-187	11.75						31.65		31.65	10.00	112.50
Dallas	P-188	11.75						31.65		31.65	10.00	112.50
Dallas	P-189	11.75						31.65		31.65	10.00	112.50
Dallas	P-190	11.75						31.65		31.65	10.00	112.50
Dallas	P-191	11.75						31.65		31.65	10.00	112.50
Dallas	P-192	11.75						31.65		31.65	10.00	112.50
Dallas	P-193	11.75						31.65		31.65	10.00	112.50
Dallas	P-194	11.75						31.65		31.65	10.00	112.50
Dallas	P-195	11.75						31.65		31.65	10.00	112.50
Dallas	P-196	11.75						31.65		31.65	10.00	112.50
Dallas	P-197	11.75						31.65		31.65	10.00	112.50
Dallas	P-198	11.75						31.65		31.65	10.00	112.50
Dallas	P-199	11.75						31.65		31.65	10.00	112.50
Dallas	P-200	11.75						31.65		31.65	10.00	112.50
Dallas	P-201	11.75						31.65		31.65	10.00	112.50
Dallas	P-202	11.75						31.65		31.65	10.00	112.50
Dallas	P-203	11.75						31.65		31.65	10.00	112.50
Dallas	P-204	11.75						31.65		31.65	10.00	112.50
Dallas	P-205	11.75						31.65		31.65	10.00	112.50
Dallas	P-206	11.75						31.65		31.65	10.00	112.50
Dallas	P-207	11.75						31.65		31.65	10.00	112.50
Dallas	P-208	11.75						31.65		31.65	10.00	112.50
Dallas	P-209	11.75						31.65		31.65	10.00	112.50
Dallas	P-210	11.75						31.65		31.65	10.00	112.50
Dallas	P-211	11.75						31.65		31.65	10.00	112.50
Dallas	P-212	11.75						31.65		31.65	10.00	112.50
Dallas	P-213	11.75						31.65		31.65	10.00	112.50
Dallas	P-214	11.75						31.65		31.65	10.00	112.50
Dallas	P-215	11.75						31.65		31.65	10.00	112.50
Dallas	P-216	11.75						31.65		31.65	10.00	112.50
Dallas	P-217	11.75						31.65		31.65	10.00	112.50
Dallas	P-218	11.75						31.65		31.65	10.00	112.50
Dallas	P-219	11.75						31.65		31.65	10.00	112.50
Dallas	P-220	11.75						31.65		31.65	10.00	112.50
Dallas	P-221	11.75						31.65		31.65	10.00	112.50
Dallas	P-222	11.75						31.65		31.65	10.00	112.50
Dallas	P-223	11.75						31.65		31.65	10.00	112.50
Dallas	P-224	11.75						31.65		31.65	10.00	112.50
Dallas	P-225	11.75						31.65		31.65	10.00	112.50
Dallas	P-226	11.75						31.65		31.65	10.00	112.50
Dallas	P-227	11.75						31.65		31.65	10.00	112.50
Dallas	P-228	11.75						31.65		31.65	10.00	112.50
Dallas	P-229	11.75						31.65		31.65	10.00	112.50
Dallas	P-230	11.75						31.65		31.65	10.00	112.50
Dallas	P-231	11.75						31.65		31.65	10.00	112.50
Dallas	P-232	11.75						31.65		31.65	10.00	112.50
Dallas	P-233	11.75						31.65		31.65	10.00	112.50
Dallas	P-234	11.75						31.65		31.65	10.00	112.50
Dallas	P-235	11.75						31.65		31.65	10.00	112.50
Dallas	P-236	11.75						31.65		31.65	10.00	112.50
Dallas	P-237	11.75						31.65		31.65	10.00	112.50
Dallas	P-238	11.75						31.65		31.65	10.00	112.50
Dallas	P-239	11.75						31.65		31.65	10.00	112.50
Dallas	P-240	11.75						31.65		31.65	10.00	112.50
Dallas	P-241	11.75						31.65		31.65	10.00	112.50
Dallas	P-242	11.75						31.65		31.65	10.00	112.50
Dallas	P-243	11.75						31.65		31.65	10.00	112.50
Dallas	P-244	11.75						31.65		31.65	10.00	112.50
Dallas	P-245	11.75						31.65		31.65	10.00	112.50
Dallas	P-246	11.75						31.65		31.65	10.00	112.50
Dallas	P-247	11.75						31.65		31.65	10.00	112.50
Dallas	P-248	11.75						31.65		31.65	10.00	112.50
Dallas	P-249	11.75						31.65		31.65	10.00	112.50
Dallas	P-250	11.75						31.65		31.65	10.00	112.50
Dallas	P-251	11.75						31.65		31.65	10.00	112.50
Dallas	P-252	11.75						31.65		31.65	10.00	112.50
Dallas	P-253	11.75						31.65		31.65	10.00	112.50
Dallas	P-254	11.75						31.65		31.65	10.00	112.50
Dallas	P-255	11.75						31.65		31.65	10.00	112.50
Dallas	P-256	11.75						31.65		31.65	10.00	112.50
Dallas	P-257	11.75						31.65		31.65	10.00	112.50
Dallas	P-258	11.75						31.65		31.65	10.00	112.50
Dallas	P-259	11.75						31.65		31.65	10.00	112.50
Dallas	P-260	11.75						31.65		31.65	10.00	112.50
Dallas	P-261	11.75						31.65		31.65	10.00	112.50
Dallas	P-262	11.75						31.65		31.65	10.00	112.50
Dallas	P-263	11.75						31.65		31.65	10.00	112.50
Dallas	P-264	11.75						31.65		31.65	10.00	112.50
Dallas	P-265	11.75						31.65		31.65	10.00	112.50
Dallas	P-266	11.75						31.65		31.65	10.00	112.50
Dallas	P-267	11.75						31.65		31.65	10.00	112.50
Dallas	P-268	11.75						31.65		31.65	10.00	112.50
Dallas	P-269	11.75						31.65		31.65	10.00	112.50
Dallas	P-270	11.75						31.65		31.65	10.00	112.50
Dallas	P-271	11.75						31.65		31.65	10.00	112.50
Dallas	P-272	11.75						31.65		31.65	10.00	112.50
Dallas	P-273	11.75						31.65		31.65	10.00	112.50
Dallas	P-274	11.75						31.65		31.65	10.00	112.50
Dallas	P-275	11.75						31.65		31.65	10.00	112.50
Dallas	P-276	11.75						31.65				



SCHEDULE NO. 67—Continued

County	Project No.	Mileage	Reconstructions	Survey	Profile	Specifications	Conference	Records	Bridges and Culverts	Materials and Tests	Construction	Total
Greene	B-243							1.06	5.86	1.70	0.22	7.24
Greene	B-244							5.05	126.41	5.16	24.05	141.67
Grundy	P-48	14.11	19.15	12.08				5.29		5.41	25.25	46.05
Grundy	P-222	22.00		12.08			35	77.17		76.57	83.40	491.87
Grundy	P-242	10.00						13.00		11.10	10.96	35.06
Grundy	B-22	30.00						7.63		2.28	12.14	49.51
Guthrie	B-17	10.00						13.78		13.14	10.96	37.88
Guthrie	B-18	14.05	167.27				79.77	133.78		132.14	107.02	505.91
Guthrie	B-19	6.75	12.08				32.77	82.86		84.19	86.85	253.81
Guthrie	B-20	11.45						22.64		22.64	11.45	56.73
Guthrie	B-21	20.23					2.96	109.04		117.48	432.35	654.30
Hamilton	P-97	6.00						157.05		167.35	502.02	1,012.45
Hamilton	P-98	20.11					1.75	105.05		105.05	113.45	323.65
Hamilton	P-99	14.04					3.73	21.73		25.31	113.45	160.26
Hamilton	P-218	7.00					6.00	54.36		54.36	68.06	128.72
Hamilton	P-254	1.00	9.73				4.79	73.49		73.49	121.15	204.64
Hamilton	B-9	5.79					6.97	51.41		51.41	113.45	175.81
Hamilton	B-41						3.73	20.02		20.02	11.00	31.02
Hamilton	B-500						1.43	13.28		13.28	11.00	35.28
Hamilton	B-501						1.43	13.28		13.28	11.00	35.28
Hamilton	B-187	31.79					11.00	53.15		53.15	11.00	75.25
Hancock	B-188	13.00					7.70	13.28		13.28	11.00	37.56
Hancock	B-189	11.00						53.15		53.15	11.00	75.25
Hancock	B-190	11.00						13.28		13.28	11.00	37.56
Hancock	B-191	11.00						13.28		13.28	11.00	37.56
Hancock	B-192	11.00						13.28		13.28	11.00	37.56
Hancock	B-193	11.00						13.28		13.28	11.00	37.56
Hancock	B-194	11.00						13.28		13.28	11.00	37.56
Hancock	B-195	11.00						13.28		13.28	11.00	37.56
Hancock	B-196	11.00						13.28		13.28	11.00	37.56
Hancock	B-197	11.00						13.28		13.28	11.00	37.56
Hancock	B-198	11.00						13.28		13.28	11.00	37.56
Hancock	B-199	11.00						13.28		13.28	11.00	37.56
Hancock	B-200	11.00						13.28		13.28	11.00	37.56
Hancock	B-201	11.00						13.28		13.28	11.00	37.56
Hancock	B-202	11.00						13.28		13.28	11.00	37.56
Hancock	B-203	11.00						13.28		13.28	11.00	37.56
Hancock	B-204	11.00						13.28		13.28	11.00	37.56
Hancock	B-205	11.00						13.28		13.28	11.00	37.56
Hancock	B-206	11.00						13.28		13.28	11.00	37.56
Hancock	B-207	11.00						13.28		13.28	11.00	37.56
Hancock	B-208	11.00						13.28		13.28	11.00	37.56
Hancock	B-209	11.00						13.28		13.28	11.00	37.56
Hancock	B-210	11.00						13.28		13.28	11.00	37.56
Hancock	B-211	11.00						13.28		13.28	11.00	37.56
Hancock	B-212	11.00						13.28		13.28	11.00	37.56
Hancock	B-213	11.00						13.28		13.28	11.00	37.56
Hancock	B-214	11.00						13.28		13.28	11.00	37.56
Hancock	B-215	11.00						13.28		13.28	11.00	37.56
Hancock	B-216	11.00						13.28		13.28	11.00	37.56
Hancock	B-217	11.00						13.28		13.28	11.00	37.56
Hancock	B-218	11.00						13.28		13.28	11.00	37.56
Hancock	B-219	11.00						13.28		13.28	11.00	37.56
Hancock	B-220	11.00						13.28		13.28	11.00	37.56
Hancock	B-221	11.00						13.28		13.28	11.00	37.56
Hancock	B-222	11.00						13.28		13.28	11.00	37.56
Hancock	B-223	11.00						13.28		13.28	11.00	37.56
Hancock	B-224	11.00						13.28		13.28	11.00	37.56
Hancock	B-225	11.00						13.28		13.28	11.00	37.56
Hancock	B-226	11.00						13.28		13.28	11.00	37.56
Hancock	B-227	11.00						13.28		13.28	11.00	37.56
Hancock	B-228	11.00						13.28		13.28	11.00	37.56
Hancock	B-229	11.00						13.28		13.28	11.00	37.56
Hancock	B-230	11.00						13.28		13.28	11.00	37.56
Hancock	B-231	11.00						13.28		13.28	11.00	37.56
Hancock	B-232	11.00						13.28		13.28	11.00	37.56
Hancock	B-233	11.00						13.28		13.28	11.00	37.56
Hancock	B-234	11.00						13.28		13.28	11.00	37.56
Hancock	B-235	11.00						13.28		13.28	11.00	37.56
Hancock	B-236	11.00						13.28		13.28	11.00	37.56
Hancock	B-237	11.00						13.28		13.28	11.00	37.56
Hancock	B-238	11.00						13.28		13.28	11.00	37.56
Hancock	B-239	11.00						13.28		13.28	11.00	37.56
Hancock	B-240	11.00						13.28		13.28	11.00	37.56
Hancock	B-241	11.00						13.28		13.28	11.00	37.56
Hancock	B-242	11.00						13.28		13.28	11.00	37.56
Hancock	B-243	11.00						13.28		13.28	11.00	37.56
Hancock	B-244	11.00						13.28		13.28	11.00	37.56
Hancock	B-245	11.00						13.28		13.28	11.00	37.56
Hancock	B-246	11.00						13.28		13.28	11.00	37.56
Hancock	B-247	11.00						13.28		13.28	11.00	37.56
Hancock	B-248	11.00						13.28		13.28	11.00	37.56
Hancock	B-249	11.00						13.28		13.28	11.00	37.56
Hancock	B-250	11.00						13.28		13.28	11.00	37.56
Hancock	B-251	11.00						13.28		13.28	11.00	37.56
Hancock	B-252	11.00						13.28		13.28	11.00	37.56
Hancock	B-253	11.00						13.28		13.28	11.00	37.56
Hancock	B-254	11.00						13.28		13.28	11.00	37.56
Hancock	B-255	11.00						13.28		13.28	11.00	37.56
Hancock	B-256	11.00						13.28		13.28	11.00	37.56
Hancock	B-257	11.00						13.28		13.28	11.00	37.56
Hancock	B-258	11.00						13.28		13.28	11.00	37.56
Hancock	B-259	11.00						13.28		13.28	11.00	37.56
Hancock	B-260	11.00						13.28		13.28	11.00	37.56
Hancock	B-261	11.00						13.28		13.28	11.00	37.56
Hancock	B-262	11.00						13.28		13.28	11.00	37.56
Hancock	B-263	11.00						13.28		13.28	11.00	37.56
Hancock	B-264	11.00						13.28		13.28	11.00	37.56
Hancock	B-265	11.00						13.28		13.28	11.00	37.56
Hancock	B-266	11.00						13.28		13.28	11.00	37.56
Hancock	B-267	11.00						13.28		13.28	11.00	37.56
Hancock	B-268	11.00						13.28		13.28	11.00	37.56
Hancock	B-269	11.00						13.28		13.28	11.00	37.56
Hancock	B-270	11.00						13.28		13.28	11.00	37.56
Hancock	B-271	11.00						13.28		13.28	11.00	37.56
Hancock	B-272	11.00						13.28		13.28	11.00	37.56
Hancock	B-273	11.00						13.28		13.28	11.00	37.56
Hancock	B-274	11.00						13.28		13.28	11.00	37.56
Hancock	B-275	11.00						13.28		13.28	11.00	37.56
Hancock	B-276	11.00						13.28		13.28	11.00	37.56
Hancock	B-277	11.00						13.28		13.28	11.00	37.56
Hancock	B-278	11.00						13.28		13.28	11.00	37.56
Hancock	B-279	11.00						13.28		13.28	11.00	37.56
Hancock	B-280	11.00						13.28		13.28	11.00	37.56
Hancock	B-281	11.00						13.28		13.28	11.00	37.56
Hancock	B-282	11.00						13.28		13.28	11.00	37.56
Hancock	B-283	11.00						13.28		13.28	11.00	37.56
Hancock	B-284	11.00						13.28		13.28	11.00	37.56
Hancock	B-285	11.00						13.28		13.28	11.00	37.56
Hancock	B-286	11.00						13.28		13.28	11.00	37.56
Hancock	B-287	11.00						13.28		13.28	11.00	37.56
Hancock	B-288	11.00						13.28		13.28	11.00	37.56
Hancock	B-289	11.00						13.28		13.28	11.00	37.56
Hancock	B-290	11.00						13.28		13.28	11.00	37.56
Hancock	B-291	11.00						13.28		13.28	11.00	37.56
Hancock	B-292	11.00						13.28		13.28	11.00	37.56
Hancock	B-293	11.00						13.28		13.28	11.00	37



## SCHEDULE NO. 67—Continued

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IOWA STATE HIGHWAY COMMISSION

County	Project No.	Miles	Reconnaissance	Survey	Profile	Specifications	Conferences	Records	Bridges and Culverts	Materials and Tests	Construction	Total
Jefferson	B-45							1.19		1.99	5.67	8.85
Jefferson	B-107				157.84		31.04	244.44	613.56	289.29	9.43	1,245.60
Jefferson	B-							3.37	11.87	3.45		18.69
Johnson	B-35	18.20						5.25		5.38	25.06	35.69
Johnson	P-97	1.57						2.54		1.47	3.95	9.45
Johnson	P-207	18.50	22.56	676.30	2,172.73	23.83	59.24	911.71	28.33	933.13	66.02	4,893.83
Johnson	P-286	15.01	2.50					.47		.48		3.45
Johnson	P-310	4.25	11.29	183.31	537.85	23.83	3.86	224.72		230.00		1,211.89
Johnson	P-311		11.29	45.20	601.50	25.09	3.86	197.03		201.66		1,096.23
Johnson	B-							54.69	712.26	221.20		1,204.27
Johnson	C-4							8.96		23.01	19.30	51.27
Johnson	C-11							6.91		7.08	29.74	46.42
Johnson	C-12							2.09		8.79		11.08
Jones	86	25.20			22.29		1.12	59.58	8.75	60.98	239.76	322.48
Jones	163	21.99		5.93	761.97	23.83	18.15	248.17		254.00	77.44	1,389.39
Jones	P-266			751.13	691.47	92.27	13.09	466.45		477.41	3.25	2,495.07
Jones	P-281	4.91			3.61		2.71	6.77		6.93	23.98	44.00
Jones	B-83				3.61			13.22	47.93	16.08	1.76	84.60
Jones	B-100							24.49	86.22	25.06		135.77
Jones	B-209			7.54				114.36	375.76	117.04	21.20	688.43
Keokuk	34	12.31			9.04			3.54		3.62	4.18	20.38
Keokuk	183	8.00	31.36	22.46	116.31		15.89	70.45	24.17	64.74	9.60	334.98
Keokuk	191	5.00	22.59	62.81	1,802.23	23.83	56.08	662.76	57.28	645.53	137.91	3,469.02
Keokuk	P-128	17.40		9.45	126.24		13.33	109.21		84.68	141.16	484.07
Keokuk	P-246	22.30		1,988.69				683.38		603.60	.68	3,396.35
Keokuk	B-147			12.19				10.64	22.80	10.89		56.61
Keokuk	B-148				14.22			48.23	153.90	49.35	1.59	267.30
Keokuk	B-149							194.41	650.66	226.11		1,071.18
Keokuk	B-222			15.15	25.06		4.67	27.02	39.57	27.65	9.87	148.90
Kossuth	66	34.33						20.83		21.32	99.42	141.57
Kossuth	111	21.31		4.12	7.35		3.26	13.18		14.18	45.14	87.23
Kossuth	140	11.26		1.21			6.03	52.27		67.78	215.99	319.28
Kossuth	P-6	17.42	29.46	145.12	521.44		19.64	224.27		229.54	51.88	1,331.35
Kossuth	P-270	1.80			1.69		49.08	41.32		42.29	135.47	239.86
Kossuth	P-283				14.51			4.27		4.37		23.15
Kossuth	P-89							.29	.69	.30		1.00
Kossuth	B-138				7.11			4.32	6.91	4.42	1.27	24.03
Kossuth	C-7						6.90	6.51		9.36	18.19	40.96
Lee	P-68	8.90			32.84		7.43	24.29		23.69	74.30	161.89
Lee	P-149	4.00		181.23	1,229.72	35.69	72.49	522.24	5.41	512.31	116.63	2,675.13

Lee	B-2							9.58	33.74	9.81		53.13
Lee	B-100			8.57	14.94		2.22	208.28	700.10	213.18	7.55	1,154.81
Linn	22	18.00						.62		.64	2.96	4.22
Linn	96	12.75	6.47	2.43	76.31	71.39	14.10	33.45		34.24	12.04	250.43
Linn	P-221	17.00						.16		.17	.78	1.11
Linn	P-257	.467	5.02		5.06	11.96	10.37	7.93		8.12	11.43	59.89
Linn	P-293	2.00	25.30	223.79	114.18			114.77	1.25	117.47		596.76
Linn	B-		7.43					23.72	78.60	24.28		134.03
Louisa	53	23.40						.31		.31	1.46	2.08
Louisa	P-75	10.26	14.11	45.95	190.17			74.28		76.02		406.53
Louisa	P-179	11.00		16.53	422.32			141.24	15.62	140.67	7.91	744.29
Louisa	B-111				22.89			23.14	57.75	23.69		127.47
Louisa	B-112			1.25				54.14	189.13	55.41		299.63
Lucas	63	23.15			7.17		7.94	30.39		31.11	125.36	201.97
Lucas	P-278	5.00	13.41	508.20	469.56			317.03	5.52	324.47	9.58	1,617.77
Lucas	B-10				2.53			.75		.76		4.94
Lucas	B-101							48.26	169.94	49.40		267.60
Lucas	B-206							20.31	71.52	20.79		112.62
Lucas	C-24		5.32		6.02		7.94	22.17		22.69	82.92	147.90
Lyon	110	23.00			4.61			1.36		1.39		7.36
Lyon	P-85	16.00			41.18	42.57		39.10		40.02	120.63	233.50
Lyon	P-146	12.77	36.33	20.70	104.97		1.94	81.20		83.19	171.33	499.57
Lyon	P-174	23.00						3.31		3.39	15.80	22.50
Lyon	P-229	16.50	17.55	349.30	1,393.94		14.06	511.56	4.87	523.58	4.25	2,728.21
Lyon	P-292	16.00	63.96	2.52	126.31	23.83	40.52	88.40		90.48	129.19	565.21
Lyon	P-307	11.00	2.50		16.66	23.83	23.09	24.09		24.65	56.13	171.55
Lyon	B-66							7.06	24.69	7.18		38.93
Lyon	B-84				3.38			1.92	3.27	1.97		10.54
Lyon	B-127							129.54	385.28	174.58	7.91	711.38
Lyon	B-179				39.48			14.39	33.42	13.60	81.62	297.11
Madison	109	13.60	21.31	11.85	53.11	28.29	41.23	83.36		85.31	229.60	554.15
Madison	P-36	13.00			15.66			4.83		4.94	1.03	26.46
Madison	B-180				20.12			50.52	114.86	51.71	9.00	282.61
Mahaska	79	26.76	21.81	58.45	297.75		61.47	219.17		191.35	292.95	1,652.45
Mahaska	146	14.30		425.39	356.81	23.83	2.19	363.37		338.23	223.33	1,833.06
Mahaska	P-287	6.50		1,079.64				371.61		376.65		1,827.90
Mahaska	B-27				17.48		17.00	23.09	46.55	23.63	2.03	129.78
Mahaska	F.A.B.70							9.58	33.74	9.81		53.13
Mahaska	B-122			6.77	45.18		9.17	199.69	698.57	229.39		1,069.67
Mahaska	B-129		21.92	9.40	100.32		9.77	200.94	525.19	206.06	58.79	1,132.34
Mahaska	B-139							37.68	132.68	38.57		208.93
Mahaska	B-220							4.08	14.37	4.18		22.63
Marion	75	23.20	8.79	18.20	203.75	23.83		68.80		70.41		303.78
Marion	P-248	2.40		44.82	270.68	23.83		106.72	38.22	109.22		595.24
Marion	P-315	15.00	2.50		201.94	23.83	66.24	93.35		95.54	41.30	545.38
Marion	P-320	6.50	29.08	50.08	232.59	23.83		97.21	8.10	99.49	14.12	554.50
Marion	P-322	9.50	21.13	937.13	992.83			618.74		633.27	19.19	3,222.29
Marion	B-119							12.20	42.95	12.48		67.63
Marion	B-143							72.41	254.96	74.11		401.48

FINANCIAL STATEMENT

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SCHEDULE NO. 67—Continued

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IOWA STATE HIGHWAY COMMISSION

County	Project No.	Miles	Reconnaissance	Survey	Profile	Specifications	Conferences	Records	Bridges and Culverts	Materials and Tests	Construction	Total
Marion	B-151				4.82			42.36	144.15	43.35		234.68
Marion	B-157							7.95	28.00	8.14		44.09
Marion	B-158							118.58	417.54	121.37		657.49
Marion	T-505		17.55	128.93	679.44			253.93	5.21	259.90	24.98	1,369.04
Marshall	23	5.93						.58		2.21		2.79
Marshall	P-13	3.25						18.46		18.90	88.11	125.47
Marshall	P-240	13.50	59.16	59.28	736.17	102.17	9.81	306.51	77.37	313.71	142.56	1,806.74
Marshall	B-159			27.19				255.13	\$39.39	261.13	8.74	1,411.58
Mills	15	15.00			.96			6.14		6.29	27.96	41.35
Mills	B-11			.82				.78		.80	2.40	4.80
Mitchell	45	15.88		7.66	19.28			10.99		11.25	12.95	62.13
Mitchell	P-138	21.21	40.75	33.60	969.32	5.62	41.11	356.32	89.36	359.07	107.29	1,952.44
Mitchell	B-				58.56			56.01	136.50	57.33		398.40
Monona	184	27.00	5.02	208.94	1,211.44	23.83	77.33	468.87		479.89	93.74	2,569.06
Monona	P-38	39.40	21.31	524.08	874.55	23.83	42.06	538.17		550.81	413.30	2,089.31
Monona	B-48			2.11	29.76		26.83	138.70		207.05	334.18	843.25
Monona	B-171			1.81			13.68	81.00		196.64	76.00	466.94
Monroe	20	8.25			7.23			2.13		2.18		11.54
Monroe	P-78	8.00		38.87	126.01	23.83		61.88	13.55	63.34	19.56	357.69
Monroe	P-294	12.00	47.50	139.15	736.55	118.95		351.17	17.78	359.42	268.62	2,086.33
Monroe	B-28			.42				13.77		66.72	21.40	818.63
Monroe	B-201							46.55		130.35	47.61	267.15
Monroe	B-211				46.99		8.00	44.22		88.41	45.26	248.29
Monroe	R-525		13.36	147.40	43.34	256.64	65.83	97.54		99.84	25.37	749.82
Monroe	C-16						4.03	44.81		104.15	110.24	263.23
Montgomery	P-65	17.75		406.12				137.95		141.19		685.26
Montgomery	B-195			.31	.00			.28		.29		1.48
Muscatine	40	19.35						1.55		5.08	1.46	8.09
Muscatine	87	29.10						109.12		81.80	294.19	516.36
Muscatine	P-265	10.60	9.59	1,382.62	433.17		31.25	604.30		614.61		3,044.29
Muscatine	B-49				2.41			8.82		14.12	19.88	53.96
Muscatine	B-200		42.85	16.75				56.74	151.31	58.08		325.73
O'Brien	P-69	28.30		15.78			33.24	52.74		4.82		339.87
O'Brien	P-335	29.50	8.79	323.79	603.59			289.41		296.21		1,521.79
O'Brien	B-197			9.75	63.02	58.45	22.67	80.69		38.69	162.82	534.60
O'Brien	B-198						9.16	38.16	126.21	39.06		212.39
Osceola	B-15	11.00		11.59		25.43		4.95		5.06		47.03
Osceola	P-197	15.00		48.99	401.65	23.83	4.86	180.35	.63	205.23	170.50	1,036.62
Osceola	P-201	.32						1.42		1.46	6.79	9.67
Osceola	P-202	17.00		9.18				8.42		8.62	25.28	51.90

Osceola	P-206	5.50	21.31		11.01		44.38	33.39		39.29	94.95	249.33
Osceola	B-87						8.58	19.36	58.20	19.82	3.15	109.11
Osceola	B-219						12.81	36.59	37.30	82.80	31.80	201.30
Page	137	28.50			180.56		95.50	83.66		80.85		440.57
Page	178	16.30			195.86		47.07	78.54	9.21	75.00		406.28
Page	P-27	22.25		234.33			7.95	91.73	11.66	93.88	32.48	472.03
Page	P-264	10.50		22.83	370.69			124.05		126.96		680.58
Page	B-250		27.26	.25	74.46			177.24		528.48		989.10
Page	B-251							10.81		38.05	11.06	59.92
Palo Alto	109	11.05						6.44		6.59	30.73	43.76
Palo Alto	P-219	13.00	17.55	186.77	232.16	23.83	11.92	139.09		142.36		753.68
Palo Alto	P-340	11.00	5.02	1.78	20.07		3.97	8.47		8.67		47.98
Palo Alto	B-				4.22			49.79	170.95	50.96		273.92
Plymouth	38	27.85		282.50	92.44	55.15	3.39	126.92		129.87	3.29	693.56
Plymouth	181	15.20	5.02	22.70	387.62		13.89	129.82		132.87	44.76	716.68
Plymouth	192	27.50	79.03	99.58	2,162.90		86.63	716.30		733.13	41.20	3,018.77
Plymouth	P-39	13.75						12.27		12.56	58.56	83.39
Plymouth	P-74	18.00			16.06			35.47		36.30	146.66	234.49
Plymouth	B-35							13.87	11.87	3.45		18.69
Plymouth	B-81							12.80	3.00	13.19	53.39	84.96
Plymouth	B-105			2.49				26.09	90.31	26.70	2.12	145.22
Plymouth	F.A.B.192							43.54	153.32	44.37		241.43
Plymouth	B-212			.76	46.99			288.37		347.10	46.03	1,566.12
Plymouth	T-515		50.81	1,350.73	1,631.54		15.89	954.00		976.42	5.08	4,984.47
Pocahontas	P-90	15.00	17.55		11.24			25.76	14.16	24.32	62.60	153.63
Pocahontas	P-339	23.75	2.50	169.69	374.34		25.21	174.74		178.85		925.33
Pocahontas	B-218			1.20			15.89	122.20	394.96	125.08	26.75	696.08
Polk	132	12.54		11.84	4.17	15.17	2.75	133.52		171.50	546.92	885.87
Polk	180	7.71	38.85	8.07	23.22	73.62	2.54	34.27		28.46	11.96	210.99
Polk	187	9.06	40.13	29.45	243.28	246.91	43.09	178.80		207.26	185.90	1,234.82
Polk	199	2.50		19.67	201.72		11.91	69.10		70.73		373.13
Polk	P-1	1.60						1.86		1.91	8.89	12.66
Polk	P-40	29.25	8.33	35.02	42.75			26.06		26.67		138.83
Polk	P-115	3.75			3.01			17.82		18.24	80.81	119.88
Polk	P-122	6.25			.72			.21		.22		1.15
Polk	P-244	6.95					7.94	18.91		19.35	80.64	126.84
Polk	P-258	.9875						7.72		8.40	35.97	52.09
Polk	P-280	.75			27.94	23.74	11.50	15.39		15.76	15.80	110.13
Polk	P-349	.88			50.47			14.87		15.22		80.56
Polk	B-			72.57				78.25	188.72	80.68		419.62
Polk	C-21		21.31		32.07		7.95	17.28		17.68	8.57	104.86
Polk	T-540				.60			.18		.18		.96
Pottawattamie	P-21	20.00		.52	67.88	108.96	100.80	310.50		237.23	716.00	1,541.39
Pottawattamie	P-22	23.25		.52	97.72		190.01	213.42	32.48	188.03	396.06	1,118.24
Pottawattamie	P-92	10.00		10.38	79.34		1.53	63.22		64.70	171.47	390.64
Pottawattamie	P-297	15.00	17.55	8.50	188.46	11.96		63.83		65.33	15.97	396.60
Pottawattamie	P-298	5.00	17.55	64.00	89.65			56.42	11.66	57.74	7.89	304.91
Pottawattamie	B-95				13.86		2.78	108.01	324.04	105.76	23.23	577.66
Pottawattamie	B-96		26.51		2.89		2.17	82.64	252.01	84.58	22.25	473.06

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IOWA STATE HIGHWAY COMMISSION

County	Project No.	Miles	Reconnaissance	Survey	Profile	Specifications	Conferences	Records	Bridges and Culverts	Materials and Tests	Construction	Total
Pottawattamie	B-97				3.61			10.01	20.12	10.25	15.43	50.42
Pottawattamie	B-229			1.05				92.77	325.40	94.95		514.17
Pottawattamie	B-231							58.60	206.35	59.98		334.93
Pottawattamie	T-523			809.16	459.83			410.28		419.92		2,009.19
Poweshiek	174	16.50		74.86	27.27			86.78		88.82	254.46	532.19
Poweshiek	P-41	24.00		308.94	164.40		23.14	159.39		163.09	.61	819.57
Poweshiek	P-247	8.25		13.00	134.69	23.83	30.38	69.43		75.16	72.80	419.29
Poweshiek	B-134				39.40			32.30	38.84	32.95	45.64	180.03
Poweshiek	B-155				6.39			6.49	16.24	6.65		35.77
Poweshiek	B-							43.24	152.27	44.26		239.77
Poweshiek	T-535		51.73	12.12				13.88		14.20		91.93
Ringgold	6	12.00				2.23		7.91		8.00	37.30	55.53
Ringgold	123	12.00	14.00		2.65	2.13	24.31	54.70	.69	55.99	214.01	308.48
Ringgold	141	6.00	9.24	163.66	307.03	23.83	6.35	168.69	23.79	172.66	55.37	930.62
Ringgold	142	5.90	9.24	22.32	156.58		6.35	78.94	29.14	80.79	64.96	448.32
Ringgold	B-79				.72			26.16	16.46	16.85	45.94	106.13
Ringgold	B-123		9.24					17.63	70.16	235.21		304.05
Ringgold	B-124		9.24		24.94		6.37	73.74	221.96	75.47		411.72
Sac	P-106	18.00						2.67		2.73	12.72	18.12
Sac	P-210	6.31		53.45	573.17	35.69	89.35	226.61		235.73	68.09	1,282.09
Sac	P-304	13.50	2.50	.65	117.17	35.69	85.52	79.19		113.45	45.01	479.18
Scott	54	8.46			28.34	23.83	15.04	26.06		35.32	47.21	175.80
Scott	55	19.13			503.11		22.51	241.24	31.34	283.94	289.14	1,371.28
Scott	114	17.24		7.40				3.15		3.23	3.05	16.83
Scott	135	.95			65.43		9.23	33.66		36.70	53.70	108.72
Scott	185	5.09			45.04	23.83	5.84	30.97		31.69	72.90	210.27
Scott	P-50	26.85						14.45		11.98	51.17	77.60
Scott	P-124	14.00		3.43	79.65		11.92	27.64		28.29		150.93
Scott	P-204	6.00			33.86	47.56		12.13		12.41	1.27	107.23
Scott	B-118								11.87	3.45		18.09
Scott	B-				33.74	155.72		76.32	211.94	78.11		555.83
Shelby	P-42	23.75		16.54	12.53		4.10	40.47		22.32	23.10	119.06
Shelby	P-154	25.00		4.70				1.60		1.63		7.93
Shelby	C-5						3.16	17.29		46.45	30.62	96.92
Sioux	28	24.26			9.75			9.79		10.02	46.72	66.53
Sioux	84	12.94						8.75		18.63	9.69	46.73
Sioux	P-83	33.30	4.40	14.34	16.28	21.24		57.40		64.10	210.76	388.52
Sioux	P-198	23.60	50.47	9.75	22.99	47.65	30.76	69.86		61.27	145.93	428.68
Sioux	P-223	15.20		120.43	502.26	23.83	91.02	236.24		241.79	103.68	1,324.25
Sioux	P-299	5.00	2.50	10.95	19.99	23.74	6.55	24.80		25.38	57.84	171.75

Sioux	P-314	1.00	11.29	2.43	116.14		15.91	41.19		42.15		229.11
Sioux	P-336	14.00	7.84		13.11	23.83	13.63	10.41		10.66	3.22	82.76
Sioux	P-337	12.00			8.63	23.83	19.33	9.05		9.26	3.22	73.32
Sioux	B-22			3.66	2.53	10.35		11.88	6.00	12.16	37.02	83.00
Sioux	B-181			28.62	4.70		15.25	257.32	760.00	284.36	90.02	1,440.96
Story	72	20.50			13.50			18.64		19.08	60.99	121.21
Story	P-62	43.80						.04		.04	.20	.28
Story	P-100	1.50						.85		.87	4.06	5.78
Story	P-133	4.00						2.29	5.81	2.34	3.05	13.40
Story	P-231	2.00	17.55	100.03	317.21	24.54		138.34		141.59	31.75	771.01
Story	P-232	25.15	8.79		7.83	23.83		16.67		17.06	56.12	130.30
Story	P-282	1.07			18.86			6.13		6.27	2.74	31.00
Story	P-332				2.29			.67		.69		3.65
Story	B-31				2.41			1.62	3.12	1.66	.10	8.91
Story	B-133				7.95			5.33		9.65		29.60
Story	B-135			10.92	58.10			123.58	358.05	126.48	5.11	682.24
Story	C-9			34.30	17.03		1.40	19.33		19.78	11.01	102.85
Tama	47	30.00	37.55	4.02	140.73	20.79	28.10	138.58	5.41	147.22	368.83	801.23
Tama	176	6.30			76.78	90.75	14.42	38.65		39.56	41.91	302.07
Tama	P-243	6.30			11.24			4.55		4.66	5.93	26.38
Tama	P-276	20.00	17.55	156.94	586.47	23.74	29.27	267.37	10.83	273.65	126.90	1,492.72
Tama	P-309	8.70	56.47	652.98	615.40	120.20	23.38	424.40		434.37		2,327.20
Tama	B-25			1.97				26.40	90.61	27.02		146.00
Tama	B-214			11.99	99.37		1.33	329.00	1,022.58	337.43	22.23	1,823.93
Tama	B-							2.94	5.42	3.01	6.67	18.04
Taylor	81	9.25		57.25	11.33		3.09	33.81		34.60	48.87	138.95
Taylor	149	14.00		45.01	166.54		1.80	148.52	23.33	128.13	216.94	739.36
Taylor	196	10.50		511.57	672.60			371.86		380.46		1,909.49
Taylor	B-117						2.03	26.18	45.85	17.24		91.30
Taylor	B-121				8.08	164.46		27.25	63.12	27.89	1.95	292.75
Taylor	B-213			5.65	92.42	154.02	14.15	116.07	207.18	166.88	6.33	762.70
Union	83	24.00		9.66	80.25		87.43	61.65		63.10	60.18	302.27
Union	B-42				4.58		13.45	17.09	11.62	17.50	43.15	107.39
Van Buren	60	11.10			2.89			6.58		6.73	27.31	43.51
Van Buren	165	16.30		187.92	97.55		31.80	177.69		140.71	107.87	743.54
Van Buren	B-75							3.53		3.61	16.85	23.99
Van Buren	B-132			7.31	2.65			22.87	28.53	19.72	31.60	112.68
Van Buren	B-185							28.59	100.65	29.26		158.50
Van Buren	B-186							14.17	49.91	14.51		78.59
Van Buren	T-511			1,340.75	692.37			661.78		675.49		3,370.32
Van Buren	T-512			1,668.53	983.78			877.57		885.29	19.05	4,434.22
Wapello	42	10.50						.36		.37	1.73	2.46
Wapello	159	17.20						132.16		90.43	269.62	557.30
Wapello	P-326	16.00		29.25	27.20		7.95	9.94		10.17	49.36	49.36
Wapello	B-118				3.74			5.29	8.00	5.41	9.14	31.58
Wapello	B-							22.16	78.02	22.68		122.86
Wapello	C-2			10.67	21.76		21.64	31.21		48.87	49.28	183.43
Wapello	C-23			47.65	16.87	83.26	13.09	26.08		23.01	3.00	212.96
Warren	11	15.50			.84	5.80	9.82	11.68		11.95	41.59	81.68

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County	Project No.	Miles	Reconnaissance	Survey	Profile	Specifications	Conferences	Records	Bridges and Culverts	Materials and Tests	Construction	Total
Warren	P-44	15.50	26.90	5.22	187.74	5.81	97.61	137.64		140.88	241.32	843.12
Warren	P-176	2.56		9.66	6.51		7.95	7.21		7.38		38.71
Warren	P-222	1.77		3.11	22.18		15.60	23.18		23.73	55.59	143.39
Warren	P-291	1.50			15.46		19.08	22.92		23.46	64.00	145.52
Warren	P-321	6.00	44.90	456.17	443.77	23.83	.70	301.47	23.12	308.55		1,601.51
Warren	B-93							.69	1.60	.71	1.13	4.13
Warren	B-99				43.80		7.71	44.97	53.17	46.03	71.68	267.36
Warren	B-110				6.99		15.60	9.19	11.22	9.41		52.41
Warren	B-120							5.56	19.61	5.70		30.86
Warren	B-242							66.84	235.35	68.41		370.60
Washington	71	21.84						1.08		1.11	5.16	7.35
Washington	167	7.50	1.88		42.20		57.38	116.06	14.16	103.32	163.26	468.26
Washington	182	5.08	31.38	10.65	200.64		22.25	86.50		80.96	11.41	443.19
Washington	P-253	9.30	10.67	326.49	892.29	28.02	35.12	466.30	58.73	438.29	58.83	2,314.74
Washington	P-306	57.00	5.02		24.52	35.67	27.59	21.16		21.65	21.91	157.52
Washington	B-86				60.00		4.07	143.52	410.01	146.89	39.98	804.47
Washington	B-153			41.03				278.00	903.41	306.00		1,528.53
Wayne	91	17.80			15.73	67.29	7.74	71.32		73.00	296.13	531.21
Wayne	150	16.00				13.47		37.61		38.49	176.90	266.47
Wayne	P-317	16.00	41.20	138.71	673.25			270.18		276.53	81.15	1,481.02
Wayne	B-13				10.45			10.78	23.28	11.03	5.20	60.74
Wayne	B-164				20.60		3.09	15.90	13.87	16.27	24.38	94.11
Wayne	B-165						.98	10.32	14.34	10.56	28.62	64.82
Wayne	B-177							55.97	197.07	57.28		310.31
Wayne	B-225							1.67	5.87	1.71		9.26
Webster	13	12.15			5.42			1.60		1.63		8.65
Webster	P-25	16.00						4.26		16.36		20.62
Webster	P-64	15.94					2.12	19.40		19.86	90.04	131.42
Webster	P-111	7.03					2.13	1.68		4.91		8.72
Webster	P-182	9.89			8.74	23.74	15.32	11.06		11.32	17.51	87.69
Webster	P-183	13.95			5.73	23.83	7.35	40.45		125.71	28.80	231.87
Webster	P-184	10.50		3.07	4.10	23.83	62.06	30.20		37.86	42.16	203.28
Webster	P-343	2.00	27.41	50.54				22.34		22.86		123.15
Webster	B-207			125.47	12.23		101.70	282.65	506.11	381.29	163.76	1,573.21
Winneshiek	P-87	21.02						.18		.19	.88	1.25
Winneshiek	P-190	22.00		1.15	58.04		6.88	62.27		54.17	145.61	327.82
Winneshiek	B-1				.96			.29		.29		1.53
Winneshiek	98	21.20	16.67	53.50	35.30		43.78	141.01		175.91	290.43	766.00
Winneshiek	P-121	17.50	10.35	14.68	89.28		34.52	109.46		82.23	133.81	474.33
Winneshiek	P-177	25.50	36.10	601.74	858.61			495.14		506.77	2.29	2,900.63

Winneshiek	B-55							8.99	5.42	3.57		17.98
Winneshiek	B-73							8.99	31.65	9.20		49.84
Winneshiek	B-146				12.78		5.47	23.89	30.50	26.25		98.89
Winneshiek	B-162			24.73	6.02		13.37	32.10	39.07	27.16		142.46
Winneshiek	C-15		10.03			34.80	15.89	9.44		9.66	10.23	90.05
Woodbury	2	54.75		173.84	1,916.59	184.45	127.90	749.46	10.41	788.54	361.07	4,312.26
Woodbury	78	2.80						3.46		13.29		16.75
Woodbury	136	8.00			2.89	43.73	6.55	75.49		161.78	196.82	487.26
Woodbury	162	8.00		9.75	7.59		4.50	47.24	2.00	69.35	155.25	295.68
Woodbury	188	9.00	5.02	93.93	290.56	35.69	48.42	138.82		142.08	32.09	786.61
Woodbury	P-45	14.00						3.51		3.59	16.73	23.83
Woodbury	P-185	8.00		62.16	34.30			31.22		31.95		159.63
Woodbury	P-187	.92						5.64		5.77	26.89	38.30
Woodbury	B-240		13.73	14.58	1.45		45.63	466.32	1,548.01	496.48	1.74	2,587.94
Woodbury	T-528			392.24	205.50		15.89	197.78		292.43		1,613.84
Woodbury	T-529			421.61	76.49			165.74		169.63		833.47
Woodbury	C-12							21.17		21.67	101.01	143.85
Worth	134	8.50						4.37		4.48	20.86	29.71
Worth	P-161	52.44			15.24			5.39		5.52	4.30	30.45
Worth	P-216	18.00	27.84	219.70	685.70	35.60	37.59	373.30	3.12	308.42	294.02	2,045.28
Worth	B-98			.52	35.42		3.86	240.88	767.02	246.54	54.71	1,348.95
Wright	29	14.67			3.74			1.25		1.27	.69	6.95
Wright	P-19	8.50					2.12	1.14		1.17	2.88	7.31
Wright	P-199	7.50	42.82	338.16	312.64		.84	219.23		224.33	19.19	1,157.24
Wright	P-200	9.50			4.59			14.25		12.20	46.58	77.62
Wright	P-341	2.00	57.60	99.39	160.52		1.68	94.34		96.56	9.00	519.60
Wright	B-90			18.19			.84	47.81	142.29	48.93	4.79	262.85
Wright	B-188				5.78		1.77	8.94	23.89	9.15		49.53
Total			\$3,705.17	\$7,671.63	\$81,392.71	\$7,790.37	\$7,172.89	\$66,276.64	\$38,049.14	\$68,410.28	\$31,680.00	\$392,149.52



## SCHEDULE NO. 68

## STATEMENT OF PRIMARY ROAD FUND—DECEMBER 1, 1922-NOVEMBER 30, 1923

## RECEIPTS

Date	Description	Amount	Balance
December 1, 1952	Balance		\$ 2,280,300.82
December 22, 1952	State Funds	8,917.16	
December 22, 1952	State Funds	5,921.20	
December 22, 1952	State Funds	1,367.44	
January 26, 1953	State Funds	56,002.25	
February 9, 1953	State Funds	20,943.75	
February 21, 1953	State Funds	13,484.56	
February 28, 1953	State Funds	4,008,674.71	
February 28, 1953	State Funds	1,472.06	
February 28, 1953	State Funds	5,719.56	
March 31, 1953	State Funds	75.00	
March 31, 1953	State Funds	30,041.98	
March 28, 1953	State Funds	1,581,251.81	
April 27, 1953	State Funds	429,718.16	
May 19, 1953	State Funds	3,000.00	
May 25, 1953	State Funds	3,192.51	
May 31, 1953	State Funds	291,862.64	
June 15, 1953	State Funds	1,254.74	
June 25, 1953	State Funds	405,341.35	
July 18, 1953	State Funds	3,900.56	
July 19, 1953	State Funds	271,258.41	
August 29, 1953	State Funds	169,772.51	
September 28, 1953	State Funds	151,567.81	
October 31, 1953	State Funds	109,861.05	
November 30, 1953	Federal Aid	1,401,915.16	
November 30, 1953	State Funds	50,822.40	

## EXPENDITURES

November 23, 1923.... Expended during year.....	\$12,500,914.35
November 30, 1923.... Balance .....	\$ 9,336,497.30
	\$ 2,979,421.05

## SCHEDULE NO. 69

STATEMENT OF PRIMARY ROAD FUND RECEIPTS AND EXPENDITURES BY  
COUNTIES—DECEMBER 1, 1927 TO NOVEMBER 30, 1928

County	No. of Sq. Mi.	Balance December 31, 1992	Receipts During Period	Total	Expendi- tures Dur- ing Period	Balance November 30, 1993
Adair	523	\$6,150,250	94,551.63	120,234.85	\$7,583,250	12,801.36
Adams	427	82,300	70,161.80	70,245.45	56,648.72	15,596.73
Albany	601	1,729,777	120,354.34	354,984.11	239,400.41	34,582.97
Albion	513	24,727,496	81,292.85	135,007.71	130,631.08	2,972.63
Androscoggin	512	2,004,890	74,759.72	80,659.97	68,659.97	11,999.99
Benton	712	90,973.14	116,991.17	22,018.00	19,285.18	3,632.83
Black Hawk	500	46,800.14	53,001.43	158,801.37	118,002.17	40,800.82
Bowdoin	528	1,302,464	171,496.14	1,473,960.28	1,311,496.14	162,464.14
Bremner	434	13,907.12	71,272.00	85,300.18	82,040.43	3,259.75
Bucksport	571	7,442.39	106,176.74	91,733.54	82,718.34	9,015.20
Buxton	500	17,998.14	106,301.74	106,301.74	106,301.74	0.00
Canby	575	25,227.78	94,808.88	120,040.66	104,380.32	15,660.34
Carroll	571	244.07	90,823.00	1,040.07	85,345.47	13,521.60
Cass	572	4,116.00	96,987.31	90,970.38	84,084.28	3,786.10
Chas. J. Taylor	564	42,800.00	50,077.08	43,593.91	43,593.91	0.00
Chester	528	298,183.02	94,973.17	373,156.19	364,396.17	8,760.00
Chickadee	572	230,214.00	46,680.25	74,166.70	72,349.37	1,817.33
Cherokee	572	130,232.37	29,131.69	29,131.69	29,131.69	0.00
Chickewauk	497	8,799.74	88,463.51	88,463.51	83,391.34	5,072.17
Clay	428	10,537.10	70,236.17	110,672.36	104,688.60	15,984.80
Clayton	700	140,504.00	94,151.63	105,210.50	105,210.50	0.00
Crawford	790	118,818.25	139,807.60	288,625.91	221,568.32	67,057.59
Dallas	400	40,715.82	126,498.24	127,214.11	78,609.30	87,604.81
Dawson	592	33,001.47	97,272.00	340,266.36	290,281.37	77,984.99
Deer Isle	502	116,302.17	82,450.38	198,772.50	180,841.84	17,930.66
Denbow	571	121,073.85	90,823.00	154,877.06	139,448.28	4,428.78
Delaware	429	700,184.70	70,000.46	19,004.24	25,942.20	6,248.02
Dickinson	411	500.00	0.00	0.00	0.00	0.00
Dubuque	616	80,402.00	100,000.00	165,527.98	156,407.52	11,120.46
Eastman	572	1,276.00	17,798.00	17,798.00	17,798.00	0.00
Elmore	465	17,110.81	119,655.17	136,765.98	126,765.98	10,000.00
Ennisville	425	1,276.00	17,798.00	17,798.00	17,798.00	0.00
Essex	560	36,083.25	64,000.83	101,887.00	101,887.00	0.00
Fairfax	572	55,561.63	82,500.48	140,115.17	140,115.17	0.00
Falmouth	531	99,750.89	144,300.56	144,300.56	144,300.56	0.00
Farmington	561	119,425.76	141,473.01	214,559.62	214,559.62	0.00
Ferrisburgh	540	97,417.06	96,391.78	88,884.22	82,828.61	6,055.61
Fish	540	54,961.63	97,500.00	142,750.00	142,750.00	0.00
Florida	567	112,000.00	157,412.00	157,412.00	157,412.00	0.00
Franklin	540	97,529.76	95,304.74	192,831.51	129,848.94	68,982.56
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129,116.75	0.00
Freeport	540	90,447.47	88,729.28	129,116.75	129	



## SCHEDULE NO. 70

STATEMENT OF ANTICIPATION CERTIFICATE FUND RECEIPTS AND EXPENDITURES BY COUNTIES, DECEMBER 1, 1922 TO NOVEMBER 30, 1923.

County	Balance December 1, 1922	Receipts During Period	Total	Expenditures During Period	Balance November 30, 1923
Adair		\$ 25,000.00	\$ 25,000.00	\$ 23,132.72	\$ 1,867.28
Adams		92,000.00	92,000.00	88,646.52	3,353.47
Audubon	\$ 27,300.52	15,304.27	42,604.79	33,744.91	8,859.88
Benton	796.49	100,375.00	101,171.49	101,171.49	
Boone	604.98	112,133.31	112,738.29	112,000.00	738.29
Bremer		50,000.00	50,000.00	44,671.26	5,328.74
Buchanan	*8,181.15	71,501.29	63,320.14	109,682.34	*46,362.20
Butler		67,000.00	67,000.00	59,223.86	7,776.14
Calhoun	6,809.09		6,809.09	6,809.09	
Carroll	41,532.83	72,055.56	113,588.39	110,588.26	3,500.13
Cass		65,000.00	65,000.00	65,000.00	
Chickasaw	*37,063.92	63,284.17	25,199.25	25,199.25	
Clarke		53,000.00	53,000.00	24,158.45	28,841.55
Clayton		60,070.20	60,070.20	30,109.26	29,960.94
Dallas	*7,165.50	108,083.84	100,918.34	94,205.43	6,712.71
Delaware		60,000.00	60,000.00	30,065.22	29,934.78
Des Moines		164,063.14	164,063.14	163,176.87	1,486.27
Dubuque		77,137.12	77,137.12	111,761.22	*34,624.10
Fayette		82,144.43	82,144.43	85,387.71	*3,243.28
Fremont		110,656.92	110,656.92	110,656.92	
Greene	480.00	115,179.40	115,660.30	86,281.75	29,378.55
Grundy	17,203.53	63,000.00	80,203.53	74,485.74	5,717.79
Guthrie	*7,884.93	74,296.56	66,911.63	182,382.99	*115,471.36
Hamilton		141,146.50	141,146.50	148,301.80	*7,155.30
Hardin	7,482.75	61,159.69	72,633.44	60,380.39	12,253.14
Howard	1,308.27	58,614.51	59,922.78	37,411.73	22,511.05
Humboldt	336.88	20,313.57	20,650.45	20,650.45	
Ida	*7,280.30	70,083.85	62,803.55	56,826.06	5,977.49
Jackson		50,000.00	50,000.00	42,553.32	7,446.68
Jasper		150,277.22	150,277.22	122,218.97	28,058.25
Jefferson		50,000.00	50,000.00	16,657.09	33,342.91
Johnson		70,000.00	70,000.00	14,018.51	55,981.49
Kossuth	674.32	100,070.00	100,744.32	102,503.53	*1,740.21
Lee		93,145.56	93,145.56	103,451.52	*10,305.96
Linn		108,210.00	108,210.00	108,210.00	
Lucas	158.03	35,102.08	35,260.11	24,587.63	10,672.48
Madison	3,409.56	15,082.18	18,491.73	18,491.73	
Mahaska		72,111.33	72,111.33	96,627.84	*24,516.51
Marshall	317.18	100,437.11	100,754.29	100,754.29	
Mills		105,496.65	105,496.65	105,496.65	
Mitchell	10,007.12	65,124.96	75,132.08	65,712.01	9,420.07
Montgomery	2,166.98	50,215.28	52,382.26	51,827.38	554.88
Muscatine	1,251.72	22,035.00	23,286.72	21,764.97	1,521.75
Palo Alto		141,011.09	141,011.09	140,892.29	118.80
Pocahontas	2,253.10	30,971.50	32,324.60	32,324.60	
Pottawattamie		240,354.96	240,354.96	231,633.50	8,721.46
Ringgold		68,302.23	68,302.23	69,216.29	*914.06
Sac		40,000.00	40,000.00	35,489.25	4,510.75
Shelby	86.43		86.43		
Sioux		50,061.12	50,061.12	44,488.15	5,572.97
Story	1,727.91	76,055.56	77,783.46	77,724.37	59.09
Tama		90,083.40	90,083.40	122,311.42	*32,228.02
Wapello		80,085.42	80,085.42	79,775.27	310.15
Washington		70,000.00	70,000.00	80,759.35	*10,759.35
Wayne		30,000.00	30,000.00	23,833.44	6,166.56
Webster	13,216.19	111,194.44	124,410.63	106,807.89	17,602.74
Winnebago	462.72	25,038.89	25,501.61	25,501.61	
Winnesiek		117,469.58	117,469.58	113,956.68	3,512.90
Worth		25,024.30	25,024.30	25,024.30	
Wright	*20,062.42	90,305.72	70,243.30	57,573.41	12,769.89
Totals	\$ 52,489.27	\$1,388,619.90	\$1,441,139.17	\$1,366,458.45	\$ 74,680.72

\*Overdraft.

## FINANCIAL STATEMENT

## SCHEDULE NO. 71

STATEMENT OF SPECIAL ASSESSMENT FUND RECEIPTS AND EXPENDITURES BY COUNTIES, DECEMBER 1, 1922 TO NOVEMBER 30, 1923.

County	Project Number	Assess- ment District No.	Balance December 1, 1922	Receipts During Period	Total	Expendi- tures During Period	Balance November 30, 1923
Benton	58	2		\$ 41,162.68	\$ 41,162.68	\$ 41,162.68	
Black Hawk	62	1		44,345.01	44,345.01	41,688.25	2,656.76
Black Hawk	62	2		16,836.18	16,836.18	15,000.00	1,836.18
Buchanan	5	1		19,208.08	19,208.08	18,026.18	1,181.90
Buchanan	5	2	\$ 40,667.19	28,792.52	111,861.58	111,861.58	
Buchanan	P-200	3				5,000.00	*5,000.00
Clinton	147	2		*68,128.94	60,884.97	47,243.97	12,000.00
Clinton	186	3				12,000.00	
Clinton	189	4				5,711.10	*5,711.10
Des Moines	P-273	3		4,272.26	4,272.26	3,509.97	762.29
Dickinson	68	1		124,930.00	124,930.00	124,930.00	
Floyd	157	3	*13,000.00	16,591.37	3,591.37	3,591.37	
Greene	P-247	2				5,000.00	*5,000.00
Hancock	94	2	*49,883.94	35,527.83	114,356.11	114,356.11	
Hancock	94	6	*25,000.00	16,769.04	41,769.04	41,769.04	
Kossuth	140	4		32,346.35	32,346.35	30,487.65	1,858.70
Kossuth	P-270	5		6,282.57	6,282.57	5,350.87	931.70
Marshall	23	1		4,707.60	4,707.60	4,707.60	
Polk	132	6				47,231.18	*47,231.18
Polk	P-258	9	*7,000.00	9,025.97	2,025.97	2,025.97	
Polk	180	10		31,746.53	31,746.53	25,074.32	6,672.21
Polk	187	11				23,021.31	*23,021.31
Scott	54	1		19,679.81	19,679.81	17,000.00	2,679.81
Scott	55	6	8,465.17		8,465.17	8,465.17	
Scott	55	8		28,503.15	28,503.15	27,159.61	1,343.54
Scott	55	9		19,243.01	19,243.01	15,000.00	4,243.01
Scott	135	7	*20,000.00	22,239.55	2,239.55	2,239.55	
Scott	185	11		19,137.33	19,137.33	15,000.00	4,137.33
Scott	P-50	5	81,051.61		81,051.61	81,051.61	
Woodbury	2	3	*35,000.00	27,462.92	62,462.92	62,462.92	
Woodbury	2	8				15,000.00	*15,000.00
Woodbury	2	10				18,000.00	*18,000.00
Woodbury	2	11				15,000.00	*15,000.00
Woodbury	P-45	1		124,365.76	124,365.76	124,365.76	
Woodbury	P-45	2		164,257.71	164,257.71	164,257.71	
Woodbury	78	4		117,908.34	117,908.34	117,908.34	
Woodbury	126	5	*31,576.19	26,135.52	57,711.71	57,711.71	
Woodbury	P-187	6	19.64	13,500.04	13,519.68	13,500.04	19.64
Woodbury	188	9				17,638.45	*17,638.45
Totals			\$*163,656.37	\$ 316,569.00	\$ 152,902.72	\$ 285,634.56	\$*132,732.23

\*Overdrawn.

†Transfers on account of changes in levies and refund of 12 1/2%.

## SCHEDULE NO. 72

STATEMENT OF PRIMARY ROAD BOND FUND RECEIPTS AND EXPENDITURES BY COUNTIES, DECEMBER 1, 1922 TO NOVEMBER 30, 1923.

County	Balance December 1, 1922	Receipts During Period	Total	Expenditures During Period	Balance November 30, 1923
Black Hawk	\$ 172,053.59	\$ 150,000.00	\$ 322,053.59	\$ 213,065.46	\$ 108,988.13
Cerro Gordo	22,061.92		22,061.92	22,061.92	
Clinton	57,899.00	312,010.00	369,909.00	363,751.01	6,157.99
Floyd	14,861.79		14,861.79	14,861.79	
Greene		100,083.52	100,083.52	71,289.76	28,793.76
Hancock	18,741.74	77,840.75	96,582.49	96,582.49	
Kossuth		80,000.00	80,000.00	63,411.77	16,588.23
O'Brien	33,444.56		33,444.56	33,444.56	
Polk	5,732.89	600,000.00	605,732.89	565,473.46	40,259.43
Scott	596,438.24		596,438.24	596,438.24	
Woodbury	37,223.59	701,222.24	738,445.83	738,445.83	
Totals	\$ 958,457.32	\$ 2,021,156.51	\$ 2,979,613.83	\$ 2,742,362.24	\$ 237,251.59



SCHEDULE NO. 73

SUMMARY OF ALL EXPENDITURES FOR ROAD AND BRIDGE CONSTRUCTION ON PRIMARY ROAD SYSTEM BY FUNDS DECEMBER 1, 1917  
TO NOVEMBER 30, 1923

County	Project No.	Primary Road Fund	Anticipation Certificate Fund	Special Assessment Certificate Fund	Primary Road Bond Fund	County Funds	City Funds	Total
Adair	F. A.-173	\$ 64,214.85	\$ 20,707.56					\$ 84,922.41
	P-28	148,639.16						148,639.16
	P-162	31,096.72						31,096.72
	B-20	19,263.12						19,263.12
	B-23	27,498.72						27,498.72
	B-64	12,966.86						12,966.86
	B-163	7,779.17						7,779.17
	B-221	26,758.11	2,425.10					29,183.27
Total		\$ 338,216.71	\$ 23,132.72					\$ 361,349.43
Adams	F. A.-26	\$ 169,108.09	\$ 1,062.79					\$ 170,170.88
	F. A.-152	26,996.46	74,665.24					101,661.70
	B-109	21,459.51	12,888.50					34,348.01
	*Redemption	40,868.00						40,868.00
Total		\$ 258,432.06	\$ 88,646.53					\$ 347,078.59
Allamakee	F. A.-161	\$ 53,212.67						\$ 53,212.67
	F. A.-170	63,697.18						63,697.18
	P-29	48,419.48						48,419.48
	P-113	42,563.38						42,563.38
	P-169	1,001.14						1,001.14
	P-305	3,308.92						3,308.92
	B-68	7,459.90						7,459.90
	B-69	3,050.53						3,050.53
	B-141	32,310.00						32,310.00
	B-156	22,375.20						22,375.20
	B-161	26,776.92						26,776.92
	B-175	61,798.29						61,798.29
Total		\$ 365,973.61						\$ 365,973.61

Appanoose	F. A.-27	\$ 76,240.82						\$ 76,240.82
	P-76	93,124.11						93,124.11
	P-227	32,517.05						32,517.05
	B-30	62,289.98						62,289.98
	B-183	53,888.12						53,888.12
Total		\$ 318,060.08						\$ 318,060.08
Audubon	F. A.-52	\$ 158,574.54	\$ 55,258.49					\$ 213,833.03
	B-69	69,992.40						69,992.40
	B-249		1,125.90					1,125.90
	*Redemption	51,516.66						51,516.66
Total		\$ 280,083.60	\$ 56,384.39					\$ 336,467.99
Benton	F. A.-58	\$ 332,608.01	\$ 105,375.00	\$ 109,720.21				\$ 547,703.22
	*Redemption	81,773.50						81,773.50
	†Interest	7,757.75						7,757.75
Total		\$ 422,139.26	\$ 105,375.00	\$ 109,720.21				\$ 637,234.47
Black Hawk	F. A.-25	\$ 93,136.26				\$ 87,714.15		\$ 180,850.41
	F. A.-62	29,294.49		\$ 56,688.25	\$ 442,786.87			\$ 528,769.61
	P-51	15,299.37						15,299.37
	P-164	38,738.86						38,738.86
	P-233	40,527.95						40,527.95
	P-235	14,238.91						14,238.91
	P-302	7,949.24						7,949.24
	P-331	2,606.55						2,606.55
	B-77	14,782.15						14,782.15
	B-125	20,883.13						20,883.13
	B-126	13,512.42						13,512.42
Total		\$ 290,970.33		\$ 56,688.25	\$ 442,786.87	\$ 87,714.15		\$ 878,159.60
Boone	F. A.-65	\$ 185,818.37						\$ 185,818.37
	P-58	25,387.86	\$ 116,336.70					141,724.56
	P-61	9,472.57	241.72					9,714.29
	P-134	50,189.89	5,316.60					55,506.49
	*Redemption	11,404.25						11,404.25
	†Interest	12,281.67						12,281.67
Total		\$ 294,545.61	\$ 121,865.02					\$ 416,410.63



County	Project No.	Primary Road Fund	Anticipation Certificate Fund	Special Assessment Certificate Fund	Primary Road Bond Fund	County Funds	City Funds	Total
Bremer	F. A.-88	\$ 75,760.17						\$ 75,760.17
	P-191	65,432.39	\$ 12,812.39					78,244.69
	P-228	26,552.72	1,375.68					27,928.40
	P-277	1,130.75	5,960.98					7,091.73
	P-334	1,037.86	6,293.10					7,330.96
	B-68	11,576.20						11,576.20
	B-80	32,722.70	9,863.93					42,586.63
	B-208	45.56	8,365.18					8,410.74
	*Redemption	15,281.25						15,281.25
Total		\$ 229,539.51	\$ 44,671.26					\$ 274,210.77
Buchanan	F. A.-5	\$ 270,924.03	\$ 103,376.61	\$ 47,719.30		\$ 2,228.65	\$ 6,270.57	\$ 430,519.16
	P-66	7,797.70	31,824.56					39,622.26
	P-236		737.10					737.10
	P-300		48,601.41	5,000.00				53,601.41
	B-91	16,416.71	4,339.23					20,755.94
	P-140		884.58					884.58
	*Redemption	68,701.50						68,701.50
Total		\$ 363,839.94	\$ 189,763.49	\$ 52,719.30		\$ 2,228.65	\$ 6,270.57	\$ 614,821.95
Buena Vista	F. A.-37	\$ 106,980.89						\$ 106,980.89
	P-18	108,985.34						108,985.34
	P-49	2,344.31						2,344.31
	P-93	21,731.87						21,731.87
	S-1	1,055.74						1,055.74
	†Interest	2,663.94						2,663.94
Total		\$ 243,762.00						\$ 243,762.00
Butler	F. A.-85	\$ 152,201.37	\$ 1,490.33					\$ 153,691.70
	P-71	72,405.33	26,527.94					98,933.27
	P-167	77,568.57	23,505.89					101,074.46
	P-267	1,336.77	4,123.17					5,459.94
	P-72	6,705.30	3,546.26					10,251.56
	B-203	15,112.94	30.33					15,143.27
	*Redemption	23,135.94						23,135.94
Total		\$ 348,463.22	\$ 59,223.86					\$ 407,687.08

Calhoun	F. A.-10	\$ 110,297.51						\$ 110,297.51
	P-5	20,269.32						20,269.32
	P-16	57,264.15						57,264.15
	P-96	38,705.80	\$ 11,323.63					50,029.43
	P-96	31,468.83	2,678.24					34,147.07
	P-107	7,507.54	6,054.97					13,562.51
	C-27	14,240.85				\$ 58,631.90		72,892.75
	*Redemption	20,825.00						20,825.00
	†Interest	2,209.63						2,209.63
Total		\$ 302,788.63	\$ 20,056.84			\$ 58,631.90		\$ 381,497.37
Carroll	F. A.-99	\$ 90,069.60						\$ 90,069.60
	F. A.-154	11,081.69	\$ 71,107.39					82,189.08
	P-14	77,988.75						77,988.75
	P-141	5,966.39						5,966.39
	P-226	2,179.34	19,118.09					21,297.43
	B-14	26,087.76						26,087.76
	B-62	3,831.87						3,831.87
	B-113	1,079.45	26,045.55					27,125.00
	B-152	17,169.56	5,665.65					22,835.21
	C-19		12,000.00			\$ 27,365.60		39,365.60
	*Redemption	67,113.94						67,113.94
Total		\$ 302,568.35	\$ 133,936.68			\$ 27,365.60		\$ 463,870.72
Cass	F. A.-155	\$ 105,471.65	\$ 63,184.66					\$ 168,656.31
	P-150	38,901.19						38,901.19
	B-61	28,918.09						28,918.09
	B-160	93,180.51	1,815.34					94,995.85
	*Redemption	40,750.00						40,750.00
Total		\$ 307,221.44	\$ 65,000.00					\$ 372,221.44
Cedar	F. A.-57	\$ 41,640.48						\$ 41,640.48
	P-114	132,279.53						132,279.53
	P-316	2,620.40						2,620.40
	B-204	21,124.80						21,124.80
	B-205	23,285.11						23,285.11
	B-238	7,604.56						7,604.56
	B-239	32,799.44						32,799.44
Total		\$ 261,444.32						\$ 261,444.32



## SCHEDULE NO. 73—Continued

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IOWA STATE HIGHWAY COMMISSION

FINANCIAL STATEMENT

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County	Project No.	Primary Road Fund	Anticipation Certificate Fund	Special Assessment Certificate Fund	Primary Road Bond Fund	County Funds	City Funds	Total
Cerro Gordo	F. A.-1	\$ 44,997.50				\$ 46,794.12		\$ 91,791.62
	F. A.-61	85,396.51		\$ 62,118.13	\$ 139,971.30			\$ 277,486.03
	F. A.-115	100,833.71		231,332.32	616,790.29			\$ 1,308,956.32
	P-225	37,564.77			3,229.32			\$ 40,794.09
	C-22	3,500.00					\$ 12,614.88	\$ 16,114.88
Total	Interest	11,813.26						\$ 11,813.26
		\$ 382,985.75		\$ 293,450.45	\$ 750,000.00	\$ 46,794.12	\$ 12,614.88	\$ 1,466,845.20
Cherokee	F. A.-116	\$ 59,061.83						\$ 59,061.83
	P-56	47,992.94						\$ 47,992.94
	P-131	44,051.74						\$ 44,051.74
	P-214	34,514.59						\$ 34,514.59
	P-249	14,158.96						\$ 14,158.96
	P-250	50,160.82						\$ 50,160.82
	B-7	23,074.17						\$ 23,074.17
	B-170	14,149.41						\$ 14,149.41
	B-185	62,474.56						\$ 62,474.56
	B-261	15.00						\$ 15.00
Total		\$ 349,917.01						\$ 349,917.01
Chickasaw	F. A.-35	\$ 101,250.79				\$ 178.00		\$ 101,428.79
	F. A.-76	130,808.27	\$ 15,701.69					\$ 146,509.96
	P-177	835.85	75,678.54					\$ 76,514.39
	P-131		24,045.84					\$ 24,045.84
	B-109		12,238.70					\$ 12,238.70
Total	Redemption Interest	66,782.56						\$ 66,782.56
		705.51						\$ 705.51
Total		\$ 300,412.94	\$ 155,664.17			\$ 178.00		\$ 456,255.11
Clarke	F. A.-33	\$ 92,240.97						\$ 92,240.97
	P-31	95,183.78	\$ 91.49					\$ 95,275.27
	P-213	14,480.83	17,294.78					\$ 31,775.61
	B-83	17,728.32						\$ 17,728.32
	B-184	13,956.69	6,772.18					\$ 20,728.87
Total		\$ 233,480.57	\$ 24,158.45					\$ 257,639.04
Clay	P-32	\$ 1,100.00						\$ 1,100.00
	P-32	88,556.04						\$ 88,556.04
	P-250	13,987.17						\$ 13,987.17
	P-250	11,464.80						\$ 11,464.80
	B-36	46,898.08						\$ 46,898.08
	B-191	5,890.14						\$ 5,890.14
Total		\$ 167,886.23						\$ 167,886.23
Clayton	F. A.-74	\$ 229,666.24	\$ 7,651.57					\$ 237,317.81
	F. A.-156	111,621.21	21,044.44					\$ 132,665.65
	P-70	29,931.19						\$ 29,931.19
	P-144	1,674.86						\$ 1,674.86
	P-236	4,717.56	1,124.53					\$ 5,842.09
	P-340	824.05						\$ 824.05
	B-62	17,340.62						\$ 17,340.62
	B-63	12,808.78						\$ 12,808.78
	B-85	43,313.77						\$ 43,313.77
	B-136	2,194.28	288.32					\$ 2,482.60
	B-166	41,729.95						\$ 41,729.95
	B-167	5,202.00						\$ 5,202.00
Total		\$ 494,561.51	\$ 30,100.26					\$ 524,661.77
Clinton	F. A.-18	\$ 247,400.90		\$ 301,319.26	\$ 475,538.33			\$ 924,258.58
	F. A.-147	22.90		60,884.97	463,741.70			\$ 464,649.57
	F. A.-186			12,000.00	120,040.82			\$ 132,040.82
	F. A.-189			5,711.10	78,469.06			\$ 84,180.16
	P-125	26,012.14			29,028.14			\$ 55,040.28
	P-238				7,885.97			\$ 7,885.97
	P-271				10,389.65			\$ 10,389.65
	P-323				8,658.94			\$ 8,658.94
	B-257	269.28						\$ 269.28
	Bond	77,000.00						\$ 77,000.00
Total		\$ 300,714.21		\$ 279,915.33	\$ 1,123,732.61			\$ 1,774,362.25
Crawford	P-8	\$ 81,746.60						\$ 81,746.60
	P-181	8,235.40						\$ 8,235.40
	P-288	5,382.31						\$ 5,382.31
	P-289	23,477.00						\$ 23,477.00
	P-65	37,542.85						\$ 37,542.85
	B-71	5,305.07						\$ 5,305.07
	B-75	820.65						\$ 820.65
	B-259	39.70						\$ 39.70
Total		\$ 162,548.98						\$ 162,548.98



## SCHEDULE NO. 73—Continued

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IOWA STATE HIGHWAY COMMISSION

County	Project No.	Primary Road Fund	Anticipation Certificate Fund	Special Assessment Certificate Fund	Primary Road Bond Fund	County Funds	City Funds	Total
Dallas	F. A.-12	\$ 55,224.34	\$ 486.90					\$ 55,711.24
	P-33	99,595.99	45,042.89					144,638.88
	P-72	1,005.45						1,005.45
	P-109	54,061.18	2,609.49					56,660.67
	P-194	23,509.50	953.98					24,463.48
	P-195	13,628.03	41,242.41					54,870.44
	P-196		51,113.24					51,113.24
	*Redemption	72,812.50						72,812.50
	†Interest	2,630.35						2,630.35
	Total	\$ 322,576.35	\$ 141,448.91					\$ 464,025.26
Davis	F. A.-50	\$ 105,010.84						\$ 105,010.84
	F. A.-153	67,100.98						67,100.98
	F. A.-158	43,064.98						43,064.98
	B-116	18,933.88						18,933.88
	B-131	12,426.84						12,426.84
Total		\$ 246,597.52						\$ 246,597.52
Decatur	F. A.-8	\$ 145,801.49						\$ 145,801.49
	F. A.-122	82,937.88						82,937.88
	P-318	18,743.97						18,743.97
	B-24	17,373.28						17,373.28
	B-33	31,652.42						31,652.42
	B-144	1,037.32						1,037.32
	B-145	10,473.72						10,473.72
	Total	\$ 308,020.08						\$ 308,020.08
Delaware	F. A.-4	\$ 68,170.07						\$ 68,170.07
	F. A.-103	105,479.55	\$ 83.50					105,563.05
	P-159	29,782.14						29,782.14
	P-236	81,886.72	28,926.93					110,813.65
	P-338	3,586.50	2,635.02					6,221.52
	B-136	51,098.57	3,662.32					54,760.89
	C-8	16,834.92					\$ 50,043.80	75,898.72
	C-26		3,757.45				9,062.08	12,819.53
	Total	\$ 357,458.47	\$ 30,065.22				\$ 68,105.88	\$ 464,029.57

Des Moines	F. A.-32	\$ 108,801.80	\$ 100,000.00	\$ 46,463.11				\$ 255,264.91
	P-53	95,406.63		22,818.76				118,225.39
	P-273		31,180.50	3,569.97			\$ 14,330.24	49,080.71
	C-13		16,043.02				51,606.10	67,739.72
	C-18		15,952.75				46,866.91	62,819.66
	*Redemption	55,304.16						55,304.16
	†Interest	6,055.86						6,055.86
	Total	\$ 265,468.45	\$ 163,176.87	\$ 72,851.84			\$ 112,893.25	\$ 614,390.41
Dickinson	F. A.-68	\$ 204,083.93		\$ 25,125.00				\$ 229,208.93
	P-23	3,905.00						3,905.00
	P-55	6,943.29						6,943.29
	†Interest	447.50						447.50
	Total	\$ 215,379.72		\$ 25,125.00				\$ 240,504.72
Dubuque	F. A.-17	\$ 197,231.92	\$ 4,002.12					\$ 201,234.04
	F. A.-148	33,799.02	77,137.82					110,937.44
	P-147	16,053.84						16,053.84
	B-137	16,734.80	16,347.11					33,081.91
	B-178	29,251.45	14,274.17					43,525.62
Total		\$ 293,171.63	\$ 111,761.22					\$ 404,932.85
Emmet	F. A.-49	\$ 14,432.12						\$ 14,432.12
	P-57	85,887.80						85,887.80
	Total	\$ 100,319.92						\$ 100,319.92
Fayette	F. A.-59	\$ 263,115.29	\$ 11,539.55					\$ 274,654.84
	F. A.-164	66,797.72	13,749.12					80,546.84
	F. A.-172	36,065.70	44,802.82					80,868.52
	P-143	16,470.28	9,802.87					26,273.15
	P-144	12,113.73	2,747.33					14,861.06
	P-145	6,397.55	226.02					6,623.57
	P-189	21,782.00	2,430.00					24,212.00
	Total	\$ 422,742.37	\$ 85,387.71					\$ 508,130.08
Floyd	F. A.-41	\$ 236,751.00		\$ 140,921.00	\$ 286,507.34			\$ 664,179.34
	F. A.-157	8,428.16		16,591.37	64,767.49			89,787.02
	P-63	134.89		55,220.12	208,583.28			263,938.29
	P-73				5,156.89			5,156.89
	P-268	27,461.00						27,461.00
	P-269	4,102.27						4,102.27
	B-176	2,384.91						2,384.91
	†Interest	9,050.80						9,050.80
Total		\$ 288,319.21		\$ 212,732.49	\$ 565,015.00			\$ 1,066,066.70

FINANCIAL STATEMENT

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## SCHEDULE NO. 73—Continued

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IOWA STATE HIGHWAY COMMISSION

County	Project No.	Primary Road Fund	Anticipation Certificate Fund	Special Assessment Certificate Fund	Primary Road Bond Fund	County Funds	City Funds	Total
Franklin	F. A.-106	\$ 86,663.47						\$ 86,663.47
	F. A.-171	111,513.77						111,513.77
	P-46	52,770.24						52,770.24
	P-88	1,111.04						1,111.04
	P-190	23,692.61						23,692.61
	P-261	21,613.11						21,613.11
	P-354	159.97						159.97
	B-56	8,103.07						8,103.07
Total		\$ 305,627.28						\$ 305,627.28
Fremont	F. A.-77	\$ 198,848.33	\$ 1,834.08					\$ 200,682.41
	P-84	18,307.91						18,307.91
	B-1	8,916.02	110,147.41					119,063.43
	B-6	9,937.38	6,692.76					16,630.14
	*Redemption	60,497.88						60,497.88
	+Interest	7,898.85						7,898.85
Total		\$ 304,466.37	\$ 118,674.25					\$ 423,080.62
Greene	F. A.-30	\$ 244,702.92	\$ 386.80	\$ 70,244.86				\$ 315,334.58
	F. A.-193		42,211.68					42,211.68
	P-24	5,374.68	37,300.00					42,674.68
	P-252		3,116.50					3,116.50
	P-279		6,219.80					6,219.80
	P-347		560.47	5,000.00	\$ 45,716.89			51,277.36
	P-348		7.60		25,572.84			25,580.44
	*Redemption	48,042.08						48,042.08
	+Interest	2,280.55						2,280.55
Total		\$ 300,400.23	\$ 89,802.85	\$ 75,244.86	\$ 71,289.73			\$ 536,737.67
Grundy	F. A.-19	\$ 79,418.80	\$ 2.20					\$ 79,421.00
	P-48	69,972.87	15,392.63					85,365.50
	P-123	23,852.32	44,838.77					68,691.09
	P-163	21,708.60						21,708.60
	P-242	20,962.83	52,388.00					73,350.83
	B-32	33,084.78						33,084.78
	B-102	1,329.50						1,329.50
	B-172	10,830.51	7,845.61					18,676.12
	*Redemption	64,092.89						64,092.89
Total		\$ 322,880.10	\$ 120,467.21					\$ 443,347.31

FINANCIAL STATEMENT

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Guthrie	F. A.-51	\$ 176,615.55	\$ 5,616.01					\$ 182,231.56
	F. A.-145	17,988.66	108,431.59					126,420.25
	F. A.-179	2,883.41	72,917.46					75,800.87
	B-12	50,468.98						50,468.98
	B-78	17,770.48	78,502.86					96,273.34
	*Redemption	42,785.00						42,785.00
Total		\$ 308,012.08	\$ 265,467.92					\$ 573,480.00
Hamilton	F. A.-67	\$ 76,278.41	\$ 14,471.24					\$ 90,749.65
	P-17	33,991.24						33,991.24
	P-79	76,230.72	61,128.61					140,359.33
	P-206	25,069.44	8,500.00					33,569.44
	P-217		2,068.33					2,068.33
	P-218		23,851.58					23,851.58
	P-254	6,825.96	4,377.64					11,203.60
	P-344		9,177.44					9,177.44
	B-9	4,845.04	4,159.61					9,004.65
	B-41	40,545.37	5,278.68					45,824.05
	B-103		2,140.08					2,140.08
	B-104		4,663.91					4,663.91
	B-117	3,198.14	5,136.31					8,334.45
	B-187	2,102.77	348.37					2,451.14
	*Redemption	71,067.49						71,067.49
Total		\$ 340,154.58	\$ 148,301.80					\$ 488,456.38
Hancock	F. A.-94	\$ 210,892.69		\$ 152,597.56	\$ 561,887.71			\$ 925,377.96
	F. A.-139	109,424.39			8,109.27	\$ 200.00		117,733.66
	F. A.-195	27,576.64						27,576.64
	P-178	15,746.39		4,820.66				20,567.05
	+Interest				8,028.77			8,028.77
Total		\$ 363,640.11		\$ 157,418.22	\$ 581,025.75	\$ 200.00		\$ 1,102,284.08
Hardin	P-4	\$ 46,104.45	\$ 6,437.42					\$ 52,541.87
	P-88	201,235.79	100,061.80					301,297.59
	P-212	386.18	11,481.66					11,867.84
	C-1	20,300.00					\$ 35,319.66	55,619.66
	*Redemption	67,144.64						67,144.64
Total		\$ 335,171.06	\$ 117,980.88				\$ 35,319.66	\$ 488,471.60
Harrison	F. A.-14	\$ 104,900.31						\$ 104,900.31
	P-34	27,652.56						27,652.56
	B-88	5,767.52						5,767.52
	C-3	15,400.54					\$ 17,986.95	33,447.49
Total		\$ 153,180.93					\$ 17,986.95	\$ 171,167.88



## IOWA STATE HIGHWAY COMMISSION

SCHEDULE NO. 72—Continued

County	Project No.	Primary Road Fund	Anticipation Certificate Fund	Special Assessment Certificate Fund	Primary Road Bond Fund	County Funds	City Funds	Total
Henry	F. A-50	\$ 92,739.54						\$ 92,739.54
	F. A-151	15,731.00						15,731.00
	F. A-152	6,699.79						6,699.79
	FAD-151	16.39						16.39
Total		\$ 115,267.05						\$ 115,267.05
Howell	F. A-31	\$ 105,654.83	\$ 747.47					\$ 106,402.30
	F. A-48	\$ 88,417.00	\$ 24,690.35					\$ 113,107.35
	F. A-100	1,254.13	7,533.79					\$ 8,787.92
	F. A-101	24,135.00	45,488.70					\$ 69,623.70
*Redemption	P-121	5,594.46	2,009.58					\$ 7,604.04
	P-122	5,594.46	2,009.58					\$ 7,604.04
	P-123	5,594.46	2,009.58					\$ 7,604.04
	P-124	5,594.46	2,009.58					\$ 7,604.04
Total		\$ 252,330.33	\$ 81,106.20					\$ 333,436.53
Humboldt	F. A-48	\$ 134,720.13	\$ 81.84					\$ 134,801.97
	F. A-117	\$ 91,658.19	\$ 71,822.42					\$ 163,480.61
	F. A-118	2,618.11	2,618.11					\$ 5,236.22
	*Redemption	\$ 229,519.59	\$ 71,822.42					\$ 301,342.01
Total		\$ 558,616.04	\$ 153,342.79					\$ 711,958.83
Ida	F. A-40	\$ 302,795.05	\$ 699.35					\$ 303,494.40
	P-101	24,749.29	26,072.46					\$ 50,821.75
	P-102	25,008.28	26,072.46					\$ 51,080.74
	P-103	25,008.28	26,072.46					\$ 51,080.74
*Redemption	P-274	28,119.55	28,119.55					\$ 56,239.10
	P-275	28,119.55	28,119.55					\$ 56,239.10
	P-276	28,119.55	28,119.55					\$ 56,239.10
	P-277	28,119.55	28,119.55					\$ 56,239.10
Total		\$ 558,616.04	\$ 153,342.79					\$ 711,958.83
Iowa	F. A-50	\$ 130,600.43						\$ 130,600.43
	P-19	49,500.80						\$ 49,500.80
	F. A-50	\$ 130,600.43						\$ 130,600.43
	Total	\$ 180,101.23						\$ 180,101.23

## FINANCIAL STATEMENT

Jackson	F. A-31	\$ 127,798.40	\$ 38,797.25					\$ 166,595.65
	F. A-144	\$ 77,707.49	\$ 15,754.30					\$ 93,461.79
	P-77	\$ 40,461.47	\$ 42,553.59					\$ 83,015.06
	P-78	\$ 40,461.47	\$ 42,553.59					\$ 83,015.06
Total		\$ 286,628.83	\$ 137,105.23					\$ 423,734.06
Jasper	F. A-64	\$ 102,067.00	\$ 10,718.25					\$ 112,785.25
	P-77	\$ 106,825.05	\$ 7,114.21					\$ 113,939.26
	P-180	\$ 66,212.82	\$ 48,570.78					\$ 114,783.60
	P-181	\$ 66,212.82	\$ 48,570.78					\$ 114,783.60
*Redemption	P-29	\$ 20,852.57	\$ 18,114.42					\$ 38,966.99
	P-30	\$ 20,852.57	\$ 18,114.42					\$ 38,966.99
	P-31	\$ 20,852.57	\$ 18,114.42					\$ 38,966.99
	P-32	\$ 20,852.57	\$ 18,114.42					\$ 38,966.99
Total		\$ 434,354.39	\$ 122,216.07					\$ 556,570.46
Jefferson	F. A-2	\$ 99,526.05	\$ 1,635.84					\$ 101,161.89
	F. A-133	\$ 86,104.02	\$ 12,729.25					\$ 98,833.27
	P-250	\$ 53,132.07	\$ 12,729.25					\$ 65,861.32
	P-251	\$ 53,132.07	\$ 12,729.25					\$ 65,861.32
Total		\$ 291,894.16	\$ 37,124.39					\$ 329,018.55
Johnson	P. A-0	\$ 47,845.22	\$ 16,467.00					\$ 64,312.22
	F. A-128	\$ 101,007.15	\$ 14,567.17					\$ 115,574.32
	P-35	\$ 72,105.12	\$ 11,178.84					\$ 83,283.96
	P-36	\$ 72,105.12	\$ 11,178.84					\$ 83,283.96
*Redemption	P-386	\$ 7,229.27	\$ 2,839.47					\$ 10,068.74
	P-387	\$ 7,229.27	\$ 2,839.47					\$ 10,068.74
	P-388	\$ 7,229.27	\$ 2,839.47					\$ 10,068.74
	P-389	\$ 7,229.27	\$ 2,839.47					\$ 10,068.74
Total		\$ 212,520.19	\$ 43,380.13					\$ 255,900.32
Jones	F. A-50	\$ 201,100.44						\$ 201,100.44
	F. A-107	\$ 12,210.77						\$ 12,210.77
	P-38	\$ 44,866.52						\$ 44,866.52
	P-39	\$ 16,597.56						\$ 16,597.56
Total		\$ 274,775.29						\$ 274,775.29



## IOWA STATE HIGHWAY COMMISSION

SCHEDULE NO. 73—Continued

County	Project No.	Primary Road Fund	Anticipation Certificate Fund	Special Assessment Certificate Fund	Primary Road Fund	County Funds	City Funds	Total
Knox	F. A. -34	\$ 113,120.06						\$ 113,120.06
	F. A. -35	85,513.78						85,513.78
	F. A. -36	32,533.98						32,533.98
	B-128	18,716.40						18,716.40
	B-149	34,717.61						34,717.61
Total		\$ 265,996.65						\$ 265,996.65
Kossuth	F. A. -68	\$ 239,627.47	\$ 31,453.11					\$ 271,080.58
	F. A. -111	55,855.34	7,833.21					63,688.55
	F. A. -149	77,244.14	144,429.41	\$ 74,969.24	\$ 20,000.00			\$ 317,652.79
	P-270	80,484.99	11,482.21	5,300.27				\$ 107,267.47
	P-282	64,645.05	4,138.26		42,411.77			\$ 111,195.08
Lee	B-58	2,627.24	1,024.21					\$ 3,651.45
	B-59	5,122.31	2,010.01					\$ 7,132.32
	B-60	2,122.31	27,418.10					\$ 29,540.41
	O-7	128,942.50						\$ 128,942.50
	*Redemption							
Total		\$ 588,872.82	\$ 229,085.03	\$ 80,300.11	\$ 62,411.77			\$ 1,000,355.09
Lin	P-68	\$ 273,105.35	15,441.01					\$ 288,546.36
	P-149	25,544.75	79,305.39					\$ 104,850.14
	B-2	11,691.23						\$ 11,691.23
	B-3	11,691.23						\$ 11,691.23
	*Redemption	25,544.75	11,945.21					\$ 37,489.96
Linn	F. A. -22	\$ 269,515.65	\$ 106,210.00	\$ 101,996.14		\$ 30,000.00		\$ 498,721.79
	F. A. -58	90,191.07						\$ 90,191.07
	F. A. -59	18,431.61						\$ 18,431.61
	*Interest							
	Total	\$ 359,138.82	\$ 106,210.00	\$ 101,996.14		\$ 30,000.00		\$ 586,316.97

## FINANCIAL STATEMENT

Lyon	F. A. -36	\$ 132,178.00						\$ 132,178.00
	P-179	2,309.50						\$ 2,309.50
	B-4	6,974.15						\$ 6,974.15
	B-5	6,111.11						\$ 6,111.11
	*Interest	500.30						\$ 500.30
Total		\$ 250,576.35						\$ 250,576.35
Lucas	F. A. -63	\$ 139,511.71	\$ 61,883.49					\$ 201,395.20
	B-8	24,065.44	462.00					\$ 24,527.44
	B-101	2,448.77	12,000.03					\$ 14,448.80
	*Redemption	57,792.30						\$ 57,792.30
	*Interest	225.49						\$ 225.49
Total		\$ 227,605.17	\$ 79,064.37					\$ 306,669.54
Lyon	F. A. -119	\$ 119,422.98						\$ 119,422.98
	P-45	52,742.73						\$ 52,742.73
	P-146	35,656.80						\$ 35,656.80
	P-118	20,476.45						\$ 20,476.45
	P-292	34,926.71						\$ 34,926.71
Madison	P-307	20,851.77						\$ 20,851.77
	B-84	10,200.86						\$ 10,200.86
	B-127	12,833.50						\$ 12,833.50
	B-179	30,291.01						\$ 30,291.01
	Total	\$ 275,558.39						\$ 275,558.39
Mahaska	F. A. -129	\$ 10,405.62	\$ 22,847.22					\$ 33,252.84
	P-36	182,845.11	602.00					\$ 183,447.11
	B-5	79,911.24	13,282.79					\$ 93,194.03
	B-190	20,165.00						\$ 20,165.00
	*Redemption							
Total		\$ 232,425.97	\$ 36,732.01					\$ 269,157.98
Mahaska	F. A. -70	\$ 113,547.64	\$ 26,440.77					\$ 139,988.41
	F. A. -146	82,917.71	30,731.96					\$ 113,649.67
	B-27	24,822.65	4,897.84					\$ 29,720.49
	B-129	28,448.54	16,391.41					\$ 44,840.95
	B-130	2,015.00	8,232.55					\$ 10,247.55
Total		\$ 252,741.44	\$ 76,303.53					\$ 329,044.97



## IOWA STATE HIGHWAY COMMISSION

## SCHEDULE NO. 72—Continued

County	Project No.	Primary Road Fund	Anticipation Certificate Fund	Special Assessment Certificate Fund	Primary Road Bond Fund	County Funds	City Funds	Total
Marion	F. A. -7	\$ 45,000.70						\$ 45,000.70
	F. A. -8	10,000.00						10,000.00
	F. A. -15	47,000.00						47,000.00
	B-119	9,806.65						9,806.65
Marshall	B-151	14,021.27						14,021.27
	Total	\$ 270,809.24			\$ 29,005.86			\$ 299,815.10
	F. A. -23	\$ 240,355.74						\$ 240,355.74
	P-13	22,000.00	\$ 41,001.64	\$ 56,718.54				\$ 119,770.18
Mills	P-14	22,000.00	24,500.40					\$ 46,500.40
	P-15	35,727.35	34.25					\$ 35,761.60
	B-189	35,000.00	21,898.11					\$ 56,898.11
	*Redemption Interest	\$ 5,077.42						\$ 5,077.42
Mitchell	Total	\$ 300,000.48	\$ 110,480.94	\$ 56,718.54				\$ 567,200.00
	F. A. -15	\$ 100,100.00						\$ 100,100.00
	B-11	85,547.01	105,000.00					\$ 190,547.01
	*Redemption Interest	\$ 5,719.56						\$ 5,719.56
Monroe	Total	\$ 245,185.00	\$ 105,000.00					\$ 350,185.00
	F. A. -45	\$ 125,000.00	\$ 1,000.00					\$ 126,000.00
	P-188	10,125.84	84,731.70					\$ 94,857.54
	*Redemption Interest	\$ 46,527.69						\$ 46,527.69
Monona	Total	\$ 246,288.45	\$ 85,760.96					\$ 332,049.41
	F. A. -184	\$ 47,875.50						\$ 47,875.50
	P-88	159,603.77						\$ 159,603.77
	B-48	139,109.87	\$ 9,107.18					\$ 148,217.05
Montgomery	B-171	\$ 1,107.18						\$ 1,107.18
	Total	\$ 387,898.07						\$ 387,898.07

## FINANCIAL STATEMENT

Muscatine	F. A. -26	\$ 25,431.10						\$ 25,431.10
	P-264	90,507.39						\$ 90,507.39
	B-201	35,000.00						\$ 35,000.00
	C-15	13,808.47						\$ 13,808.47
Montgomery	Total	\$ 137,546.96	\$ 48,839.56					\$ 186,386.52
	F. A. -16	\$ 137,546.96						\$ 137,546.96
	*Redemption Interest	\$ 10,740.48						\$ 10,740.48
	Total	\$ 211,588.61	\$ 50,671.67					\$ 262,260.28
Muscatine	F. A. -40	\$ 125,000.00	\$ 43,443.41					\$ 168,443.41
	B-49	38,001.05	11,277.35					\$ 49,278.40
	*Redemption Interest	\$ 28,415.04						\$ 28,415.04
	Total	\$ 191,416.09	\$ 54,720.76					\$ 246,136.85
O'Brien	F. A. -48	\$ 191,416.09						\$ 191,416.09
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 341,416.09	\$ 50,000.00					\$ 391,416.09
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00	\$ 50,000.00					\$ 300,000.00
O'Brien	F. A. -10	\$ 100,000.00						\$ 100,000.00
	B-107	\$ 100,000.00						\$ 100,000.00
	*Redemption Interest	\$ 50,000.00						\$ 50,000.00
	Total	\$ 250,000.00						



SCHEDULE NO. 73—Continued

County	Project No.	Primary Road Fund	Anticipation Certificate Fund	Special Assessment Certificate Fund	Primary Road Bond Fund	County Funds	City Funds	Total
Palo Alto	F. A. -109 General	\$ 285,687.76	\$ 140,892.29	\$ 109,332.55				\$ 535,912.60
	*Redemption	1,100.00						1,100.00
	†Interest	63,508.40						63,508.40
		14,682.14						14,682.14
Total		\$ 364,978.30	\$ 140,892.29	\$ 109,332.55				\$ 615,203.14
Plymouth	F. A. -38	\$ 128,392.74						\$ 128,392.74
	F. A. -181	28,683.62						28,683.62
	F. A. -192	36,121.37						36,121.37
	P-39	64,619.41						64,619.41
	P-74	45,659.88						45,659.88
	P-353	1,107.00						1,107.00
	B-35	49,200.28						49,200.28
	B-81	39,717.60						39,717.60
	B-106	9,525.08						9,525.08
	B-212	27,067.54						27,067.54
	F.A.B.-181	.60						.60
	F.A.B.-192	49,115.72						49,115.72
Total		\$ 478,610.84						\$ 478,610.84
Pocahontas	P-7	43,343.16						\$ 43,343.16
	P-20	93,172.71	2,733.29					95,906.00
	P-90	64,427.67	28,955.08					93,382.75
	P-91	62,189.39	13,212.75					75,402.14
	P-339	4,046.85	10,895.39					14,942.24
	B-218	784.40	6,291.99					7,076.39
	*Redemption	43,574.20						43,574.20
	†Interest	1,687.85						1,687.85
Total		\$ 313,226.23	\$ 62,088.50					\$ 375,314.73

Polk	F. A. -89	\$ 9,419.97		\$ 87,156.16	\$ 273,763.70			\$ 370,339.83
	F. A. -104	128,520.90		78,726.08	105,503.24			312,750.22
	F. A. -132	2,676.14		47,231.18	359,270.52			409,177.84
	F. A. -180			25,674.32	209,641.75			235,316.07
	F. A. -187			23,621.34	230,539.42			254,160.76
	F. A. -199	82.80			8,567.44			8,650.24
	P-1	1,806.91		17,066.36	46,643.48			65,516.75
	P-3	10,771.44						10,771.44
	P-40	8,421.58		32,689.68	168,191.00			229,302.26
	P-59	10,313.10						10,313.10
	P-72	15,422.44			56,215.92			71,638.36
	P-115				23,659.34			23,659.34
	P-122	14,532.25			22.50			14,554.75
	P-244	409.00			32,004.94	\$ 332.87		33,346.81
	P-253	331.52		9,025.97	25,386.01			34,743.50
	P-280				3,465.94			3,465.94
	P-349	10,000.00			2,273.62			12,273.62
	*Redemption	54,000.00						54,000.00
Total		\$ 266,708.05		\$ 341,191.09	\$1,085,749.51	\$ 332.87		\$ 2,213,972.52
Pottawattamie	F. A. -46	\$ 54,050.37						\$ 54,050.37
	P-21	46,308.82	\$ 40,312.51					\$ 86,621.33
	P-22	49,892.79	99,970.83					149,863.62
	P-92	50,073.45	18,284.24					68,357.69
	B-95	75,865.27	36,773.23					112,638.50
	B-96	82,457.44	26,510.06					108,967.50
	B-97	41,761.73	9,892.63					51,654.36
	*Redemption	81,500.00						81,500.00
Total		\$ 481,909.87	\$ 231,653.50					\$ 713,563.37
Poweshiek	F. A. -174	\$ 94,308.23						\$ 94,308.23
	P-41	87,873.91						87,873.91
	P-247	35,800.10						35,800.10
	B-15	22,799.87						22,799.87
	B-134	16,808.04						16,808.04
	B-155	26,304.08						26,304.08
Total		\$ 283,894.23						\$ 283,894.23
Ringgold	F. A. -6	\$ 122,165.53						\$ 122,165.53
	F. A. -123	93,629.07	\$ 18,144.46					111,773.53
	F. A. -141	1,356.25	18,664.30					20,020.55
	F. A. -142	10,212.81	14,313.44					24,526.25
	B-47	12,057.33						12,057.33
	B-79	58,852.86						58,852.86
	B-123	18,747.97	9,857.60					28,605.57
	B-124	6,189.19	8,236.49					14,425.68
Total		\$ 323,211.01	\$ 69,216.29					\$ 392,427.30



## IOWA STATE HIGHWAY COMMISSION

SCHEDULE NO. 73—Continued

County	Project No.	Primary Road Fund	Anticipation Certificate Fund	Special Assessment Certificate Fund	Primary Road Bond Fund	County Funds	City Funds	Total
Sac	P-10	\$ 26,636.50						\$ 26,636.50
	P-11	\$ 57,117.01						\$ 57,117.01
	P-86	5,888.70						5,888.70
	P-106	\$ 7,542.17	20,000.00					\$ 27,542.17
	P-100	24,624.40	9,561.67					\$ 34,186.07
	P-30	643.44						643.44
	Interest	\$ 258,429.43	\$ 35,489.35					\$ 293,918.78
	F. A-54	\$ 27,206.86		\$ 17,000.00	\$ 124,655.82			\$ 268,862.68
	F. A-114	100,577.44		205,750.28	849,586.13			\$ 1,256,913.85
	F. A-135	74.79		25,239.55	94,684.88			\$ 119,999.22
Shelby	P-124	\$ 35,431.29						\$ 35,431.29
	F. A-124	35,431.29		81,001.04	225,200.91			\$ 341,633.24
	P-304	22,491.44			6,889.36			\$ 29,380.80
	P-142	629.76			4,660.80			\$ 5,290.56
	Interest	\$ 276,211.22			\$ 501,667.68			\$ 777,878.90
	P-42	\$ 239,729.54	\$ 42,592.05					\$ 282,321.59
	P-16	52,672.90	4,907.55					\$ 57,580.45
	C-5	5,700.00						5,700.00
	*Redemption Interest	69,449.27						69,449.27
	Total	\$ 341,735.38	\$ 47,500.90				\$ 36,765.73	\$ 425,002.01

## FINANCIAL STATEMENT

Stout	P-10	\$ 149,262.04						\$ 149,262.04
	P-11	\$ 114,261.80						\$ 114,261.80
	P-86	92,529.80						92,529.80
	P-106	\$ 49,680.01	1,546.30					\$ 51,226.31
	P-100	25,239.43	11,559.76					\$ 36,799.19
	P-30	2,804.44	115.73					\$ 2,920.17
	P-309	6,504.99	11,135.78					\$ 17,640.77
	P-124	29,715.65	16,919.46					\$ 46,635.11
	P-151	3,479.38	1,448.50					\$ 4,927.88
	Total	\$ 508,187.51	\$ 44,488.15	\$ 14,417.48				\$ 567,103.14
Story	F. A-72	\$ 101,479.56	\$ 18,719.68					\$ 120,199.24
	P-42	\$ 14,144.34						\$ 14,144.34
	P-231	12,746.04	17,615.42					\$ 30,361.46
	P-232	22,759.62	32,857.72					\$ 55,617.34
	P-232	33.38	6,239.46					\$ 6,272.84
	P-31	17,124.29	12,287.75					\$ 29,412.04
	P-123	11,891.72	11,857.68					\$ 23,749.40
	C-5	5,669.78	12,569.88					\$ 18,239.66
	*Redemption	\$ 27,187.50						\$ 27,187.50
	Total	\$ 257,775.79	\$ 125,996.46					\$ 383,772.25
Tama	F. A-47	\$ 264,734.26	\$ 37,536.58					\$ 302,270.84
	P-254	\$ 20,119.43	46,427.35					\$ 66,546.78
	P-25	39,182.39						\$ 39,182.39
	P-214	62,996.08	28,715.22					\$ 91,711.30
	Total	\$ 456,136.71	\$ 122,811.42					\$ 578,948.13
Taylor	F. A-81	\$ 108,509.53						\$ 108,509.53
	F. A-149	\$ 84,800.63						\$ 84,800.63
	P-171	14,587.45						\$ 14,587.45
	P-213	\$ 89,275.12						\$ 89,275.12
	Total	\$ 347,000.98						\$ 347,000.98



## IOWA STATE HIGHWAY COMMISSION

SCHEDULE NO. 72—Continued

County	Project No.	Primary Road Fund	Anticipation Certificate Fund	Special Assessment Certificate Fund	Primary Road Board Fund	County Funds	City Funds	Total
Union	F. A. 43 B. 42	\$ 140,005.82 44,723.35						\$ 184,729.17
Total		\$ 184,729.17						\$ 184,729.17
Van Buren	F. A. 40 B. 47 B. 75 B. 122	\$ 101,758.83 13,964.78 22,420.80 28,115.34						\$ 166,259.75
Total		\$ 166,259.75						\$ 166,259.75
Wapello	F. A. 43 F. A. 139 B. 118 B. 122 *Redemption	\$ 115,323.24 66,318.27 31,884.82 16,750.00 25,710.41	\$ 56,315.31 23,439.19				\$ 18,912.29	\$ 231,751.73
Total		\$ 238,451.78					\$ 18,912.29	\$ 257,364.07
Warren	F. A. 31 P. 44 P. 107 P. 108 P. 109 B. 31 B. 32 B. 40 B. 69 B. 110 B. 119 B. 120	\$ 107,630.68 79,740.00 8,555.41 314.74 5,214.00 1,119.39 38,531.18 2,792.03 14.49		\$ 79,775.27			\$ 18,912.29	\$ 307,033.56
Total		\$ 306,002.98					\$ 18,912.29	\$ 324,915.27

## FINANCIAL STATEMENT

Washington	F. A. 71 F. A. 107 P. 108 P. 109 B. 105 B. 153	\$ 84,923.17 14,872.28 24,071.33 5,617.89 61,828.31 19,073.24	\$ 12,414.41 8,467.10 9,506.30 8,118.40 7,836.47 31,038.00		\$ 80,799.35			\$ 272,700.35
Total		\$ 201,900.90			\$ 80,799.35			\$ 282,699.25
Wayne	F. A. 91 F. A. 100 B. 104 B. 105	\$ 146,002.53 31,831.25 41,666.94 22,082.08	\$ 22,975.05 807.49					\$ 190,869.48
Total		\$ 241,542.77						\$ 241,542.77
Webster	F. A. 11 P. 44 P. 108 P. 111 P. 112 P. 113 P. 114 P. 115 *Redemption *Interest	\$ 102,002.53 13,749.48 19,944.24 2,094.27 1,111.11 1,111.11 72,554.10 1,344.59	\$ 448.24 30,896.39 13,000.00 18,000.00 14,563.34 17,706.41 18,960.82					\$ 187,661.53
Total		\$ 250,812.29			\$ 142,361.70			\$ 393,174.00
Winnebago	F. A. 20 P. 105 P. 106 *Redemption *Interest	\$ 70,272.61 107,906.82 52,651.56 534.79	\$ 897.44 75,115.15					\$ 230,773.61
Total		\$ 340,805.50			\$ 75,713.29			\$ 416,518.79



## IOWA STATE HIGHWAY COMMISSION

SCHEDULE NO. 73—Continued

County	Project No.	Primary Road Fund	Anticipation Certificate Fund	Special Assessment Certificate Fund	Primary Road Fund	County Funds	City Funds	Total
Winnebago	F. A.-98	\$ 139,124.09	\$ 53,240.14					\$ 192,364.23
	P-121	82,560.22	29,080.72					111,640.94
	P-106	30,005.41	14,342.90					44,348.31
	B-146	27,601.47	4,717.00					32,318.47
	O-15	38,187.20	11,673.00				\$ 18,784.84	\$ 56,962.04
*Redemption								\$ 56,962.04
Total		\$ 424,947.02	\$ 112,956.68					\$ 537,903.70
Woodbury	F. A.-2	\$ 221,967.02		\$ 75,462.02	\$ 508,100.08	\$ 34,511.12	\$ 18,784.84	\$ 919,170.80
	F. A.-78	21,486.04		17,008.33	127,720.21			167,134.58
	F. A.-136	14,972.12		29,135.32	214,754.60			268,902.04
	F. A.-188	18,928.15		17,628.60	118,411.78			134,978.53
	P-45	226,801.27		88,622.46	905,317.88			\$ 1,220,742.91
Total		\$ 503,967.46		\$ 200,849.20	\$ 1,653,447.24	\$ 34,511.12	\$ 36,720.20	\$ 2,568,805.71
Worth	F. A.-134	\$ 88,278.75						\$ 88,278.75
	P-101	34,451.90						68,903.65
	P-102	28,826.05	\$ 20,183.15					49,009.20
	B-98		\$ 4,841.15					\$ 4,841.15
	Total	\$ 242,431.36	\$ 25,004.30					\$ 267,435.66

## FINANCIAL STATEMENT

Wright	F. A.-20	\$ 174,412.20	\$ 2,724.65					\$ 177,136.85
	P-130	59,277.25	20,071.07					\$ 79,348.32
	P-300	7,009.29	63,228.19					\$ 70,237.48
	B-34	25,301.05	4,682.04					\$ 29,983.09
	P-100		2,006.20					\$ 2,006.20
*Redemption		\$ 10,912.78	6,680.35					\$ 17,593.13
Interest		339.45						\$ 339.45
Total		\$ 227,566.27	\$ 117,736.94					\$ 345,303.21
Grand totals		\$ 20,208,000.03	\$ 5,344,890.82	\$ 4,112,088.31	\$ 99,582,004.92	\$ 300,321.55	\$ 617,669.25	\$ 40,287,973.88

\*Certificate Redemption.  
†Certificate Interest.  
‡Bond Redemption.



## SCHEDULE NO. 74

CLASSIFICATION OF EXPENDITURES FOR ROAD AND BRIDGE CONSTRUCTION ON PRIMARY ROAD SYSTEM  
DECEMBER 1, 1917 TO NOVEMBER 30, 1923.

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IOWA STATE HIGHWAY COMMISSION

Project Number	Grading	Graveling	Paving	Drainage	Guard Rail	Machinery Equip. and Repairs	Right of Way	Bridges	Engineering	Bond Cert. Redemp. and Cert. Int.	Total
ADAIR											
173	\$ 63,136.33			\$ 6,742.57	\$ 6,970.78				\$ 8,072.73		\$ 84,922.41
P-28	125,061.72			6,624.46	6,475.47				10,507.51		148,639.16
B-102	24,062.32			210.91	3,902.92				2,320.57		31,096.72
B-20								\$ 19,077.99	183.13		19,261.12
B-23								26,494.95	1,003.77		27,498.72
B-64								12,966.86			12,966.86
B-163								7,762.86	16.31		7,779.17
B-221								29,167.27	16.00		29,183.27
Total	\$ 212,830.37			\$ 13,577.94	\$ 17,349.17			\$ 95,469.93	\$ 22,122.62		\$ 361,349.43

ADAMS											
26	\$ 155,151.52				\$ 6,621.97				\$ 8,427.39		\$ 170,200.88
152	83,477.78			\$ 5,703.71	6,913.62				5,566.59		101,661.70
B-109								\$ 33,665.33	682.68		34,348.01
*Redmp.										\$ 40,868.00	40,868.00
Total	\$ 238,629.30			\$ 5,703.71	\$ 13,535.59			\$ 33,665.33	\$ 14,676.66	\$ 40,868.00	\$ 347,078.59

ALLAMAKEE											
161	\$ 47,550.13			\$ 876.08					\$ 4,770.46		\$ 53,212.67
170	57,186.50			35.94					6,474.74		63,597.18
P-29	41,709.60			3,627.50					3,082.38		48,419.48
P-113	38,405.26			1,565.65					2,592.47		42,563.38
P-169	824.15			168.06					8.93		1,001.14
P-305	3,308.92										3,308.92
B-68								\$ 7,459.90			7,459.90
B-69								3,050.53			3,050.53
B-141								22,310.00			22,310.00
B-156								22,375.20			22,375.20
B-161								25,968.47	\$ 778.45		26,746.92
B-175								61,239.88	558.41		61,798.29
Total	\$ 180,000.56			\$ 6,273.23				\$ 152,433.08	\$ 18,905.94		\$ 365,973.61

APPANOOSE											
27	\$ 66,808.88				\$ 3,172.48		\$ 6,000.00		\$ 259.46		\$ 76,240.82
P-76	82,239.38			\$ 2,814.42	2,073.78				5,996.53		93,124.11
P-227	27,777.03			549.37			1,822.00		2,358.65		32,517.05
B-30								60,811.10	1,478.88		62,289.98
B-183								51,345.80	2,542.32		53,888.12
Total	\$ 176,825.29			\$ 3,363.79	\$ 5,246.36		\$ 7,822.00	\$ 112,156.90	\$ 12,635.84		\$ 318,000.68

AUDUBON											
52	\$ 193,304.75			\$ 4,210.16	\$ 6,541.59				\$ 9,776.53		\$ 213,833.03
B-60								\$ 68,816.11	1,176.29		69,992.40
B-249								1,125.90			1,125.90
*Redmp.										\$ 51,516.66	51,516.66
Total	\$ 193,304.75			\$ 4,210.16	\$ 6,541.59			\$ 60,942.01	\$ 10,952.82	\$ 51,516.66	\$ 326,467.90

BENTON											
58	\$ 123,985.87		\$ 393,941.81	\$ 8,662.24	\$ 3,801.17				\$ 17,312.13		\$ 547,703.22
*Redmp.										\$ 81,773.50	81,773.50
+Interest										7,757.75	7,757.75
Total	\$ 123,985.87		\$ 393,941.81	\$ 8,662.24	\$ 3,801.17				\$ 17,312.13	\$ 89,531.25	\$ 637,234.47

BLACK HAWK											
25	\$ 13,841.93		\$ 159,944.27	\$ 2,181.24					\$ 4,882.97		\$ 180,850.41
62	141,013.20	\$ 5.25	335,981.00	28,849.93	\$ 5,147.28	\$ 227.50			17,545.45		528,799.61
P-51				14,488.47					810.90		15,299.37
P-164	26,825.27			8,435.86			\$ 50.00		3,427.73		38,738.86
P-233	25,710.25			12,540.18					2,277.52		40,527.95
P-235	13,821.77								43.87		14,238.91
P-302	5,288.60						1,631.94		1,028.70		7,949.24
P-331				2,487.88					118.67		2,606.55
B-77								\$ 14,772.90	9.25		14,782.15
B-125								20,866.38	16.75		20,883.13
B-126								13,034.12	479.30		13,513.42
Total	\$ 226,501.02	\$ 378.52	\$ 495,925.27	\$ 68,983.56	\$ 5,147.28	\$ 227.50	\$ 1,681.94	\$ 48,673.40	\$ 30,641.11		\$ 878,159.69

FINANCIAL STATEMENT

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## SCHEDULE NO. 74—Continued

200

IOWA STATE HIGHWAY COMMISSION

Project Number	Grading	Graveling	Paving	Drainage	Guard Rail	Machinery Equip. and Repairs	Right of Way	Bridges	Engineering	Bond Cert. Redemp. and Cert. Int.	Total
BREMER											
65	\$ 46,896.93	\$ 105,731.16		\$ 21,709.54					\$ 11,480.74		\$ 185,818.37
P-58	49,506.82	63,230.22		23,680.30					5,217.22		141,724.56
P-61				9,714.29							9,714.29
P-134	16,289.63	27,326.72		7,275.57					4,605.57		55,497.49
*Redmp.										\$ 11,404.25	\$ 11,404.25
†Interest										12,281.67	12,281.67
Total	\$ 112,783.38	\$ 196,288.10		\$ 62,379.70					\$ 21,303.53	\$ 23,685.92	\$ 416,440.63

## Bremer

88	\$ 57,465.17			\$ 11,923.55	\$ 2,224.10				\$ 4,147.35		\$ 75,760.17
P-191	63,644.92			8,395.19					6,204.58		78,244.69
P-228	2,502.50	\$ 25,304.06							121.84		27,928.40
P-277	1,310.59			5,261.65		\$ 160.00			356.49		7,091.73
P-334				2,937.14		4,165.00			228.82		7,330.96
B-58									\$ 11,553.20		11,553.20
B-80									42,572.63		42,572.63
B-208									14.00		14.00
*Redmp.									\$ 3,308.80	101.94	\$ 3,410.74
Total	\$ 124,923.18	\$ 25,304.06		\$ 28,520.53	\$ 2,224.10		\$ 4,325.00	\$ 62,434.63	\$ 11,198.02	\$ 15,281.25	\$ 274,210.77

## BUCHANAN

5	\$ 51,705.42	\$ 50.00	\$ 348,008.86	\$ 8,886.64	\$ 9,970.34				\$ 11,897.90		\$ 430,519.16
P-66	23,552.76			9,901.88	3,570.60		\$ 232.00		2,365.02		39,622.26
P-236	737.10										737.10
P-300	5,922.89		45,539.68	681.97					1,456.87		53,601.41
B-91								\$ 20,740.19	15.75		20,755.94
B-140								884.58			884.58
*Redmp.										\$ 68,701.50	\$ 68,701.50
Total	\$ 81,918.17	\$ 50.00	\$ 393,548.54	\$ 19,470.49	\$ 13,540.94		\$ 232.00	\$ 21,624.77	\$ 15,735.54	\$ 68,701.50	\$ 614,821.95

## BUENA VISTA

37	\$ 1,440.00	\$ 96,610.51		\$ 7,154.13					\$ 1,776.25		\$ 106,980.89
P-18	12,428.70	63,842.22		27,276.14					5,438.28		108,985.34
P-49	1,931.02								412.60		2,343.62
P-93	942.37	13,780.34		6,699.87					309.29		21,731.87
S-1		1,055.74									1,055.74
†Interest										\$ 2,663.94	2,663.94
Total	\$ 16,742.69	\$ 175,288.81		\$ 41,130.14					\$ 7,936.51	\$ 2,663.94	\$ 243,762.09

## BUTLER

85	\$ 65,440.98	\$ 58,504.40		\$ 23,701.93	\$ 48.00				\$ 5,996.39		\$ 153,601.70
P-71	53,240.97	28,596.72		12,950.80					4,144.78		98,933.27
P-107	50,217.38	13,965.88		30,792.18					6,099.02		101,074.46
P-267				4,423.42					1,033.52		5,456.94
B-72								\$ 10,159.50	92.00		10,251.50
B-203								14,693.49	449.78		15,143.27
*Redmp.										\$ 23,135.94	23,135.94
Total	\$ 168,899.33	\$ 101,067.00		\$ 71,868.33	\$ 48.00			\$ 24,852.99	\$ 17,815.49	\$ 23,135.94	\$ 407,687.08

## CALHOUN

10	\$ 832.70	\$ 103,529.94		\$ 3,432.34					\$ 2,482.53		\$ 110,297.51
P-5		15,266.34		4,350.97					652.01		20,269.32
P-16	28,590.49	22,121.37		5,055.46					1,496.83		57,264.15
P-35	8,886.95	24,814.94		14,652.02					1,645.52		50,029.43
P-96	1,838.06	20,800.60		9,958.93					1,469.48		34,147.07
P-107	4,045.43	5,373.75		3,715.99					427.34		13,562.51
C-27	2,600.00	57,540.00	\$ 7,917.30	1,689.68					3,109.37		72,892.75
*Redmp.										\$ 20,825.00	20,825.00
†Interest										2,209.63	2,209.63
Total	\$ 46,833.63	\$ 249,536.94	\$ 7,917.30	\$ 42,834.79					\$ 11,340.08	\$ 23,034.63	\$ 381,497.37

## CARROLL

99	\$ 85,238.12			\$ 1,598.44					\$ 3,233.04		\$ 90,069.60
154	47,470.24	\$ 20,750.15		5,648.10					8,320.59		82,189.08
P-14	72,621.10			1,799.64					3,568.01		77,988.75
P-141				5,966.39							5,966.39
P-226	18,382.55	22.00		342.80					2,550.08		21,297.43
B-14								\$ 26,087.76			26,087.76

FINANCIAL STATEMENT

201



## SCHEDULE NO. 74—Continued

202

IOWA STATE HIGHWAY COMMISSION

FINANCIAL STATEMENT

203

Project Number	Grading	Graveling	Paving	Drainage	Guard Rail	Machinery Equip. and Repairs	Right of Way	Bridges	Engineering	Bond Cert. Redemp. and Cert. Int.	Total
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## CARROLL—Continued

B- 52								3,831.87			3,831.87
B-113								26,428.11	696.89		27,125.00
B-192								22,321.80	513.41		22,835.21
C- 19			\$ 37,845.53						1,520.16		39,365.69
*Redmp.										\$ 67,113.94	67,113.94
Total...	\$ 223,712.01	\$ 20,772.15	\$ 37,845.53	\$ 15,335.37				\$ 78,689.54	\$ 20,462.18	\$ 67,113.94	\$ 463,870.72

## CASS

155	\$ 151,031.77			\$ 7,531.64	\$ 4,797.13		\$ 60.00		\$ 5,232.77		\$ 168,636.31
P-150	34,662.68			12,179.69	2,375.87				1,862.64		38,901.19
B- 61								\$ 28,111.63	806.46		28,918.09
B-160								93,980.91	1,014.94		94,995.85
*Redmp.										\$ 40,750.00	40,750.00
Total...	\$ 185,694.45			\$ 7,531.64	\$ 7,173.00		\$ 60.00	\$ 122,092.54	\$ 8,916.81	\$ 40,750.00	\$ 372,221.44

## CEDAR

57	\$ 30,608.91			\$ 4,875.61			\$ 2,235.50		\$ 3,920.37		\$ 41,640.48
P-114	107,654.71			12,179.69	\$ 2,425.23		784.70		9,235.20		132,279.53
P-316	2,620.40										2,620.40
B-204								\$ 20,800.02	324.78		21,124.80
B-205								22,969.02	325.09		23,294.11
B-238								7,509.33	95.23		7,604.56
B-239								31,713.74	1,085.70		32,799.44
Total...	\$ 140,884.02			\$ 17,055.30	\$ 2,425.23		\$ 3,020.20	\$ 83,073.11	\$ 14,986.37		\$ 261,444.32

## CERRO GORDO

1	\$ 7,476.98		\$ 83,803.64	\$ 6.00					\$ 415.00		\$ 91,701.62
61	26,422.54		242,481.38	4,110.19					4,441.92		277,456.03
115	97,757.87		873,052.06	19,523.65	\$ 2,576.88				16,054.86		1,008,965.32
P-275	39,992.22	\$ 12,145.08		7,253.84					1,402.95		60,794.09
C- 22	778.40		15,336.48								16,114.88
†Interest										\$ 11,813.26	11,813.26
Total...	\$ 172,428.01	\$ 12,145.08	\$ 1,214,673.56	\$ 30,893.68	\$ 2,576.88				\$ 22,314.73	\$ 11,813.26	\$ 1,466,845.20

## CHEROKEE

116	\$ 52,505.80			\$ 1,045.35	\$ 2,509.21				\$ 2,991.47		\$ 50,051.83
P- 98	5,113.16	\$ 36,514.73		3,841.90	1,081.57				814.58		47,365.94
P-151	38,706.12			1,833.58					3,512.04		44,051.74
P-214	20,287.25	11,421.57							2,805.77		34,514.59
P-249	570.19	13,529.78							58.98		14,158.95
P-265	2,867.45	46,531.83							761.54		50,160.82
B- 7								\$ 23,074.17			23,074.17
B-170								13,581.34	568.07		14,149.41
B-182								60,881.39	1,593.17		62,474.56
B-261									15.00		15.00
Total...	\$ 120,049.97	\$ 107,969.91		\$ 6,720.83	\$ 3,590.78			\$ 97,536.90	\$ 13,120.62		\$ 349,017.91

## CHICKASAW

35	\$ 37,728.94	\$ 39,241.07		\$ 9,512.97	\$ 62.10	\$ 11,316.40			\$ 3,607.31		\$ 101,468.79
76	84,822.10	33,896.18		20,358.53	1,660.41				5,772.14		146,599.36
177	52,705.04			17,891.82					3,907.53		74,594.39
P-131	20,280.34			3,081.20					734.30		24,045.84
P-169								\$ 12,222.60			12,222.60
*Redmp.										\$ 66,782.50	66,782.50
†Interest										705.53	705.53
Total...	\$ 195,536.42	\$ 73,137.25		\$ 50,794.52	\$ 1,722.51	\$ 11,316.40		\$ 12,222.60	\$ 14,037.38	\$ 67,488.03	\$ 426,255.11

## CLARKE

33	\$ 81,966.87			\$ 1,386.35	\$ 3,792.20				\$ 5,095.55		\$ 92,240.97
P- 31	52,387.63			4,934.69	3,257.97		\$ 29,054.68		5,640.30		95,275.27
P-313	25,792.45			1,662.56					4,240.09		31,695.61
B- 83								\$ 16,879.84	848.48		17,728.32
B-184								19,851.99	816.88		20,668.87
Total...	\$ 160,146.95			\$ 7,983.60	\$ 7,050.17		\$ 29,054.68	\$ 36,761.83	\$ 16,641.81		\$ 257,629.04



SCHEDULE NO. 74—Continued

204

LOWA STATE HIGHWAY COMMISSION

Project Number	Grading	Graveling	Paving	Drainage	Guard Rail	Machinery Equip. and Repairs	Right of Way	Bridges	Engineering	Bond Cert. Redemp. and Cert. Int.	Total
CLAY											
P-32				\$ 1,100.00							\$ 1,100.00
P-56	\$ 70,807.85	\$ 9,315.24		2,101.83	\$ 1,121.76		\$ 10.00		\$ 5,199.36		\$ 88,556.04
P-256	9,831.81			2,780.37			415.00		959.99		13,987.17
P-259	7,241.13						3,005.00		1,218.67		11,464.80
B-36								\$ 44,896.96	2,031.12		46,888.08
B-191								5,610.40	269.74		5,880.14
Total	\$ 87,880.79	\$ 9,315.24		\$ 5,982.20	\$ 1,121.76		\$ 3,430.00	\$ 50,477.36	\$ 9,678.88		\$ 167,886.23

CLAYTON											
74	\$ 176,150.22	\$ 28,030.95		\$ 11,756.54	\$ 3,218.51				\$ 12,061.59		\$ 231,217.81
156	122,164.34			186.99			\$ 2,820.00		6,941.32		132,112.65
P-70	27,689.92								2,241.27		29,931.19
P-144	1,674.86										1,674.86
P-236	4,721.19			1,121.30							5,842.49
P-346	798.46								25.50		824.05
B-62								\$ 17,340.62			17,340.62
B-63								12,898.78			12,898.78
B-85								43,282.52	31.25		43,313.77
B-136								2,582.60			2,582.60
B-166								41,701.01	28.94		41,729.95
B-167								5,202.00			5,202.00
Total	\$ 333,198.99	\$ 28,030.95		\$ 13,064.83	\$ 3,218.51		\$ 2,820.00	\$ 123,007.53	\$ 21,329.96		\$ 524,670.77

CLINTON											
18	\$ 174,380.77		\$ 708,375.37	\$ 16,249.40	\$ 4,950.98				\$ 20,311.06		\$ 924,267.58
147	14,019.96		436,585.05	95.80					13,948.76		464,649.57
186	17,687.56		110,549.74						3,803.52		132,040.82
189	7,439.77		72,075.00	618.00					3,746.79		84,189.16
P-125	43,938.25			15,072.35					6,029.68		65,040.28
P-238	986.42		6,576.73						322.82		7,885.97
P-271	10,132.53								237.12		10,369.65

P-352	6,765.84			897.75					965.85		\$ 8,638.94
B-257									200.28		200.28
*Redmp.										\$ 77,000.00	77,000.00
Total	\$ 275,350.60		\$ 1,334,162.49	\$ 33,233.30	\$ 4,950.98				\$ 49,664.88	\$ 77,000.00	\$ 1,774,362.25

CRAWFORD											
P-8	\$ 74,436.76			\$ 474.60					\$ 6,835.24		\$ 81,746.60
P-181	5,918.04			1,983.86					333.50		8,235.40
P-288	5,187.96								194.35		5,382.31
P-289	16,253.11			514.50			\$ 6,174.15		535.15		23,477.09
B-65								\$ 37,428.75	114.10		37,542.85
B-71								\$ 5,277.37	27.70		5,305.07
B-255									39.70		39.70
B-259								600.30	129.75		729.05
Total	\$ 101,795.87			\$ 2,973.05			\$ 6,174.15	\$ 43,396.42	\$ 8,200.49		\$ 162,548.98

DALLAS											
12	\$ 46,554.35			\$ 7,169.19	\$ 702.80				\$ 1,284.90		\$ 55,711.24
P-33	89,749.12	\$ 23,237.87		26,643.65	304.80				4,703.44		144,638.88
P-72	1,005.45										1,005.45
P-100	275.31	54,872.39							1,512.97		56,660.67
P-194		24,342.23							211.25		24,553.48
P-195	26,064.90	14,822.91		10,072.61					3,910.02		54,870.44
P-196	44,507.24			4,137.50					3,468.50		51,113.24
*Redmp.										\$ 72,812.50	72,812.50
Interest										2,650.36	2,650.36
Total	\$ 208,156.37	\$ 117,275.40		\$ 48,022.95	\$ 1,007.60				\$ 14,091.08	\$ 75,471.86	\$ 464,925.26

DAVIS											
50	\$ 95,621.50			\$ 676.61	\$ 4,056.01				\$ 4,656.72		\$ 105,010.84
153	56,865.42			2,253.12	1,448.12		\$ 703.50		5,825.82		67,199.98
158	36,915.21			2,388.53	719.99		15.00		3,026.25		43,064.98
B-116								\$ 18,256.63	677.25		18,933.88
B-131								12,077.36	349.48		12,426.84
Total	\$ 189,402.13			\$ 5,323.26	\$ 6,224.12		\$ 778.50	\$ 30,333.99	\$ 14,535.52		\$ 246,507.52

FINANCIAL STATEMENT

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## SCHEDULE NO. 74—Continued

506

IOWA STATE HIGHWAY COMMISSION

FINANCIAL STATEMENT

507

Project Number	Grading	Graveling	Paving	Drainage	Guard Rail	Machinery Equip. and Repairs	Right of Way	Bridges	Engineering	Bond Cert. Redemp. and Cert. Int.	Total
DECATUR											
8	\$ 127,783.86			\$ 605.16	\$ 8,981.61		\$ 4,702.89		\$ 3,737.94		\$ 145,801.49
122	63,870.94			578.32	7,604.11		4,023.00		6,861.51		82,937.88
P-318	15,656.22			793.64	1,020.77				1,273.34		18,743.97
B-24								\$ 17,373.28			17,373.28
B-33								30,812.12	840.30		31,652.42
B-144								1,037.32			1,037.32
B-145								10,184.92	288.80		10,473.72
Total	\$ 207,311.02			\$ 1,977.12	\$ 17,606.52		\$ 8,725.89	\$ 59,407.64	\$ 12,901.80		\$ 308,020.68
DELAWARE											
4	\$ 58,199.68	\$ 294.91	\$ 982.00	\$ 5,816.01	\$ 2,925.87				\$ 21.60		\$ 68,170.07
103	66,176.23	27,891.81		6,744.21					4,750.80		105,563.05
P-159	3,849.56	24,838.11							1,094.47		29,782.14
P-236	80,332.41			15,733.53			\$ 520.02		5,227.60		110,813.65
P-338	4,550.68	1,358.84		312.00							6,221.52
B-136								\$ 54,732.32	628.57		55,360.89
C-8	2,275.25		66,296.90	4,058.20					3,268.37		75,898.72
C-26			12,729.53	90.00							12,819.53
Total	\$ 224,383.81	\$ 54,313.67	\$ 80,008.43	\$ 32,753.95	\$ 2,925.87		\$ 520.02	\$ 54,732.32	\$ 14,901.50		\$ 464,629.57
DES MOINES											
32	\$ 26,492.58		\$ 202,656.74	\$ 17,183.00					\$ 8,932.59		\$ 255,264.91
P-53	17,578.02		92,727.83	2,601.37					5,318.17		118,225.39
P-273	4,215.35		40,897.54	2,062.05					1,915.77		49,080.71
C-13	3,648.95		64,000.77								67,739.72
C-18	5,365.34		57,436.32						18.00		62,819.66
*Redmp. Interest									\$ 55,204.16		55,204.16
									6,055.86		6,055.86
Total	\$ 57,300.24		\$ 457,809.20	\$ 21,836.42					\$ 16,184.53	\$ 61,260.02	\$ 614,300.41
DICKINSON											
68	\$ 17,560.36		\$ 204,186.06	\$ 1,438.38					\$ 6,024.13		\$ 229,208.93
P-23				3,965.00							3,965.00
P-55	5,438.29			1,505.00							6,943.29
Interest										\$ 447.50	447.50
Total	\$ 22,998.65		\$ 204,186.06	\$ 6,848.38					\$ 6,024.13	\$ 447.50	\$ 240,504.72
DUBUQUE											
17	\$ 160,160.54			\$ 26,054.53	\$ 3,716.80				\$ 11,402.17		\$ 201,334.04
148	91,470.19			2,676.69	4,007.95				5,782.61		110,937.44
P-147				14,333.71					1,720.13		16,053.84
B-137								\$ 33,061.41			33,061.41
B-178								43,507.31	18.31		43,525.62
Total	\$ 251,630.73			\$ 50,064.93	\$ 7,724.75			\$ 76,568.72	\$ 18,943.72		\$ 404,932.85
EMMET											
49	\$ 2,052.50	\$ 4,283.51		\$ 7,896.04	\$ 99.20				\$ 166.87		\$ 14,432.12
P-57	3,910.84	3,389.25		75,524.15					3,663.53		85,887.50
Total	\$ 5,963.34	\$ 7,672.76		\$ 83,420.22	\$ 99.20				\$ 3,830.40		\$ 100,319.92
FAYETTE											
59	\$ 150,804.50	\$ 59,854.15		\$ 51,234.09					\$ 12,672.29		\$ 274,554.94
164	68,493.77	238.20		8,571.77					3,243.19		80,546.84
172	67,043.12			9,820.74					4,094.66		80,958.52
P-143	988.50	24,498.68		555.53					200.44		26,273.15
P-144	13,526.20								1,334.86		14,861.06
P-145	5,000.80			835.40					737.37		6,573.57
B-189								24,212.00			24,212.00
Total	\$ 306,006.89	\$ 84,591.03		\$ 71,047.53				\$ 24,212.00	\$ 22,272.63		\$ 508,130.08
FLOYD											
41	\$ 78,863.19		\$ 552,309.28	\$ 18,024.98	\$ 1,561.96				\$ 13,359.93		\$ 664,170.31
157	23,986.66		59,735.59	1,900.63					4,164.14		89,787.02
P-63	35,539.69	107.14	211,638.40	9,813.90	937.08				5,882.08		263,938.29
P-73				5,156.89							5,156.89



## SCHEDULE NO. 74—Continued

Project Number	Grading	Graveling	Paving	Drainage	Guard Rail	Machinery Repairs	Right of Way	Bridges	Engineering	Road Cart. Work	Total
P-298	28,306.97			5,455.05					8,377.07		27,443.00
P-299	4.53			2,712.64					125.85		2,744.12
Interest										9,056.50	9,056.50
Total	\$ 145,973.34	\$ 107.14	\$ 822,745.37	\$ 44,234.00	\$ 2,490.04			\$ 2,359.08	\$ 27,193.57	\$ 9,056.50	\$ 1,000,000.70

## FLOYD—Continued

P-300	44,900.19	17,200.45		35,927.44	1,248.68			4,008.70			82,602.47
P-301	66,004.42	28,827.46		7,285.82	6,066.82			4,894.15			111,333.77
P-302	34,532.72	15.00		14,030.31	528.08			2,732.02			52,770.34
P-303	400.38			66.56							35,411.04
P-304		23,903.06						931.02			21,613.11
P-305		30,001.19						139.07			139.07
P-306								288.05			8,160.07
Total	\$ 144,907.22	\$ 70,114.12		\$ 61,011.32	\$ 7,874.21			\$ 7,814.43	\$ 14,205.84		\$ 315,627.28

## FRANKLIN

P-307	334,867.22			2,701.86	2,837.78			9,253.54			340,662.41
P-308	17,690.22							237.05			18,307.01
P-309								1,182.64			16,030.14
Interest									60,107.88		60,107.88
Total	\$ 352,557.45			\$ 2,701.86	\$ 2,837.78			\$ 122,123.07	\$ 11,142.73	\$ 60,806.73	\$ 423,680.42

## FREMONT

P-310	58,821.15	33,003.41	210,827.30	2,345.28	1,387.67			10,354.71			313,334.56
P-311	27,625.58			17,134.56				3,874.55			42,311.66
P-312	51,440.58	8,116.00		10,251.75				3,091.10			65,614.46
P-313	7,795.65			1,915.53				1,545.61			6,239.80
P-314	1,800.00		47,030.52					1,554.84			51,277.50
P-315	1,125.50		21,000.00	1,039.19				1,050.40			22,664.74
Interest									46,042.06		46,042.06
Total	\$ 111,274.15	\$ 28,811.91	\$ 280,878.37	\$ 5,591.34	\$ 1,387.67			\$ 22,471.80	\$ 59,237.61	\$ 59,237.61	\$ 320,227.67

## GUTHRIE

P-316	47,942.86			225,402.22				6,015.00			276,121.00
P-317	64,146.50			195,415.37				4,905.00			85,365.50
P-318	29,000.00			14,140.31				2,815.50			43,760.81
P-319	158.49			41.85				813.56			21,708.40
P-320	77,340.13							11.00			77,351.13
P-321								927.21			23,256.83
P-322								1,000.00			2,000.00
P-323								22,673.78			22,673.78
P-324								18,205.77			18,205.77
Interest								407.35		61,000.50	61,000.50
Total	\$ 193,884.12	\$ 93,270.38		\$ 54,897.20				\$ 52,607.05	\$ 14,330.48	\$ 61,010.50	\$ 443,317.31

## GRUNDY

P-325	142,125.05			19,470.48	14,670.31			6,997.16			182,263.56
P-326	99,443.53			4,155.59				3,278.04			107,876.16
P-327	67,746.00			8,550.00	5,873.00			2,776.00			79,945.00
P-328								300.00			50,496.96
P-329								96,048.13			96,048.13
P-330								221.81			96,272.31
Interest									47,745.00		47,745.00
Total	\$ 309,360.58			\$ 34,202.54	\$ 21,444.45			\$ 166,207.61	\$ 19,284.15	\$ 47,745.00	\$ 572,490.50

## GUTHRIE

P-331	142,125.05			19,470.48	14,670.31			6,997.16			182,263.56
P-332	99,443.53			4,155.59				3,278.04			107,876.16
P-333	67,746.00			8,550.00	5,873.00			2,776.00			79,945.00
P-334								300.00			50,496.96
P-335								96,048.13			96,048.13
P-336								221.81			96,272.31
Interest									47,745.00		47,745.00
Total	\$ 309,360.58			\$ 34,202.54	\$ 21,444.45			\$ 166,207.61	\$ 19,284.15	\$ 47,745.00	\$ 572,490.50

## HAMILTON

P-337	65,232.02			17,134.49				7,216.73			80,283.42
P-338	22,174.48			12,000.00				12,714.01			46,888.49
P-339	78,452.31			106.13				62.20			78,618.64
P-340											160,259.31
P-341											32,290.14



## SCHEDULE NO. 74—Continued

Project Number	Grading	Graveling	Paving	Drainage	Guard Rail	Machinery Equip. and Repairs	Right of Way	Bridges	Engineering	Bond Cert. Redemption	Total
HAMILTON—Continued											
P-237	10,300.15			1,776.94			2,007.00		280.35		2,008.35
P-238	62,191.40			330.54					1,278.80		23,581.36
P-244	9,727.25	2,700.25		605.40					798.46		11,831.00
P-244		9,177.44									9,004.45
P-41								8,832.71	331.54		9,164.25
P-103				772.70				43,847.87	2,381.08		45,228.95
P-104								4,011.57	61.94		4,073.51
P-105								7,259.33	404.04		8,304.45
P-157								2,419.00	41.05		2,460.05
*Redmp.										71,682.49	71,682.49
Total	\$ 179,200.25	\$ 100,375.41	\$ 41,681.23				\$ 2,554.50	\$ 80,287.40	\$ 28,781.03	\$ 71,682.49	\$ 489,456.28

## HANCOCK

P-4	352,510.00			777,507.51					13,823.10		253,877.96
P-98	62,191.40			22,061.43					7,000.04		117,372.84
P-103	22,725.72			17,782.50					3,052.54		22,356.64
P-105	1,500.00								612.72		29,567.05
*Redmp.										8,054.77	8,054.77
Total	\$ 434,426.52	\$ 22,061.43	\$ 707,628.90	\$ 35,145.42	\$ 4,414.40				\$ 23,496.83	\$ 8,054.77	\$ 1,105,294.08

## HARDIN

P-4	18,069.05			22,525.76					1,140.75		83,541.85
P-98	22,725.72			50,135.49					5,121.44		801,397.20
P-103	1,300.00			54,310.60					384.77		11,807.84
*Redmp.										67,144.61	67,144.61
Total	\$ 21,094.77	\$ 22,725.72	\$ 54,310.60	\$ 62,682.25	\$ 3,027.49				\$ 10,448.96	\$ 67,144.61	\$ 488,471.80

## HARRISON

P-14	66,315.37			2,475.50					5,000.72		104,000.21
P-98	25,000.18			270.00					257.74		2,707.25
C-3	2,665.07								5,806.78		5,806.78
Total	\$ 135,370.57	\$ 227.57	\$ 29,781.87	\$ 2,945.50	\$ 375.05				\$ 5,906.78	\$ 6,856.34	\$ 171,497.84

## HENRY

P-50	65,605.02			27,050.20					5,869.61		97,700.26
P-101	4,905.55			867.82					2,654.42		15,721.60
*Redmp.										6,000.70	6,000.70
Total	\$ 62,911.38		\$ 27,871.11	\$ 1,862.83	\$ 2,775.00	\$ 5,115.00			\$ 16.10		\$ 139,567.05

## HOWARD

P-31	26,007.54			11,030.03					4,412.16		104,864.80
P-98	50,527.43			17,866.00					6,702.05		199,673.21
P-103	1,408.24			5,042.87					728.90		7,283.79
P-105	30,420.75			18,270.73					5,696.43		79,504.30
P-121	6,744.04								380.00		6,844.04
*Redmp.									192.76		9,500.70
Total	\$ 114,706.00	\$ 111,844.55	\$ 82,411.26	\$ 1,777.37					\$ 17,259.38	\$ 40,500.00	\$ 363,487.03

## HUMBOLDT

P-48	22,698.42			2,080.22					2,862.72		194,801.27
P-103	65,676.43			81,451.30					9,161.15		199,805.14
*Redmp.									164.85		42,832.50
Total	\$ 88,374.85	\$ 39,642.52	\$ 73,901.33	\$ 22,540.52	\$ 1,413.25				\$ 12,141.70	\$ 42,832.50	\$ 235,449.56



## SCHEDULE NO. 74—Continued

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IOWA STATE HIGHWAY COMMISSION

Project Number	Grading	Graveling	Paving	Drainage	Guard Rail	Machinery Equip. and Repairs	Right of Way	Bridges	Engineering	Bond Cert. Redemp. and Cert. Int.	Total
IDA											
80	\$ 95,649.76			\$ 3,798.22	\$ 1,847.56				\$ 5,058.83		\$ 105,454.37
P-101	\$ 744.80				1,190.40				3,887.16		70,822.36
P-303		\$ 28,561.80							883.50		38,975.20
P-274		22,158.97							130.00		22,278.97
P-304		1,838.25									1,838.25
B-44									68.54		25,907.16
B-92								20,900.56	268.50		21,169.06
*Redimp										53,865.00	53,865.00
Total	\$ 158,794.56	\$ 62,660.02		\$ 3,798.22	\$ 2,737.96			\$ 40,709.56	\$ 9,816.96	\$ 53,865.00	\$ 310,311.30

IOWA											
B-99	\$ 105,864.10	\$ 887.72		\$ 11,277.36	\$ 2,219.88				\$ 10,411.37		\$ 130,660.43
								\$ 47,027.02	1,623.78		49,550.80
Total	\$ 105,864.10	\$ 887.72		\$ 11,277.36	\$ 2,219.88			\$ 47,027.02	\$ 12,035.15		\$ 180,211.23

JACKSON											
21	\$ 105,665.97	\$ 1,318.37		\$ 730.00	\$ 6,707.18				\$ 13,886.66		\$ 127,768.60
144				2,804.34	2,326.59				4,634.79		104,504.02
B-5	\$ 94,738.90							\$ 90,725.78	1,222.79		91,978.57
B-60								57,826.22	609.34		58,525.45
B-70								30,738.02	723.45		40,461.47
Total	\$ 200,344.87	\$ 1,318.37		\$ 2,534.34	\$ 9,033.77			\$ 188,220.01	\$ 20,666.93		\$ 423,238.80

JASPER											
04	\$ 95,631.10			\$ 7,751.00	\$ 3,138.80				\$ 8,565.14		\$ 112,886.13
P-77	\$ 82,820.21	\$ 31,042.42		\$ 5,691.14	\$ 2,845.55		\$ 600.00		\$ 10,332.11		\$ 133,370.43
P-99	\$ 14,562.21				2,375.38				36.30		16,968.79
P-180		113,807.55							718.82		114,584.43

B-29								\$ 20,546.22	6.65		\$ 20,552.87
B-34								70,150.88	2,108.56		72,259.44
B-130								47,502.00			47,502.00
B-168								12,534.06	273.62		12,807.58
*Redimp										\$ 30,650.00	\$ 30,650.00
Total	\$ 191,022.52	\$ 144,909.97		\$ 13,442.23	\$ 8,359.73		\$ 600.00	\$ 145,379.16	\$ 21,849.65	\$ 30,650.00	\$ 546,572.06

JEFFERSON											
3	\$ 84,025.20			\$ 7,631.00	\$ 3,335.41				\$ 3,984.52		\$ 99,576.13
130	\$ 31,271.56			\$ 3,796.91	1,635.84				3,105.35		\$ 39,739.46
P-220	\$ 45,217.38			\$ 12,528.85					8,137.80		\$ 65,884.32
B-45								\$ 10,635.00	14.35		\$ 10,649.35
B-167								45,390.98	21.50		\$ 45,412.48
Total	\$ 161,114.34			\$ 23,887.36	\$ 4,971.25			\$ 56,025.08	\$ 15,363.81		\$ 261,292.74

JOHNSON											
9	\$ 62,978.92		\$ 57,633.15	\$ 66.81					\$ 1,497.11		\$ 122,178.99
128	\$ 14,947.27		106,880.26	1,512.15					5,729.00		\$ 129,499.28
P-35	\$ 66,387.36			1,945.76					4,792.00		\$ 73,165.12
P-97	\$ 15,492.91			590.56	\$ 822.15				490.50		\$ 17,955.12
P-207	\$ 30,253.80			551.14	77.76				1,835.00		\$ 41,737.70
P-206	\$ 828.70		6,932.97								\$ 7,761.27
P-310	\$ 16,060.44			1,012.04			\$ 187.49		397.00		\$ 18,547.97
C-4	\$ 1,792.00		44,229.21						2,361.50		\$ 49,322.77
C-11	\$ 1,167.27		31,821.74	1,273.50					1,713.15		\$ 35,976.06
Total	\$ 219,436.67		\$ 247,506.93	\$ 7,365.36	\$ 899.91		\$ 187.49		\$ 18,005.92		\$ 494,992.28

JONES											
86	\$ 175,530.72			\$ 9,128.33	\$ 5,471.70				\$ 11,018.00		\$ 291,160.44
163	\$ 27,176.00			\$ 6,718.80					3,234.00		\$ 37,128.80
P-281		\$ 11,853.97							197.80		\$ 12,051.77
B-28								\$ 43,633.14	1,533.78		\$ 45,166.92
B-209								16,066.18	880.38		\$ 16,946.56
Total	\$ 202,727.32	\$ 11,853.97		\$ 15,847.23	\$ 5,471.70			\$ 59,636.32	\$ 16,465.57		\$ 311,230.19

FINANCIAL STATEMENT

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SCHEDULE NO. 74—Continued

214

IOWA STATE HIGHWAY COMMISSION

FINANCIAL STATEMENT

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Project Number	Grading	Graveling	Paving	Drainage	Guard Rail	Machinery Equip. and Repairs	Right of Way	Bridges	Engineering	Bond Cert. Redemp. and Cert. Int.	Total
KEOKUK											
34	\$ 98,798.05			\$ 1,260.66	\$ 7,824.39				\$ 5,237.88		\$ 113,120.98
191	74,058.53			896.74	4,518.46		\$ 140.84		3,899.21		\$ 83,513.78
P-128	29,292.45			2,827.02					3,813.51		\$ 35,933.88
B-148								\$ 18,236.50	473.90		\$ 18,710.40
B-149								34,233.86	483.75		\$ 34,717.61
Total...	\$ 202,149.03			\$ 4,985.32	\$ 12,342.85		\$ 140.84	\$ 52,470.36	\$ 13,908.25		\$ 285,996.65

KOSSUTH											
66	\$ 127,810.53	\$ 72,079.80		\$ 45,665.22	\$ 774.40				\$ 10,791.13		\$ 257,130.58
111	7,909.90	27,123.29		25,935.59					2,391.77		\$ 63,360.55
140	8,063.50		298,787.02	38.25	246.08				4,547.99		\$ 311,622.79
P-6	55,197.51	13,206.18		25,572.03	844.32		\$ 651.10		5,476.06		\$ 100,947.20
P-270	6,598.65		47,030.04	160.91					1,703.59		\$ 55,493.19
P-283	783.29		3,104.06		268.33				33.58		\$ 4,189.26
B-89								\$ 3,846.35	90.99		\$ 3,937.34
B-138								6,902.84	181.88		\$ 7,084.72
B-256								3,516.00			\$ 3,516.00
C-7	9,261.08		68,800.28								\$ 73,121.96
*Redmp.										\$ 128,962.50	\$ 128,962.50
Total...	\$ 215,565.06	\$ 112,408.77	\$ 412,781.40	\$ 97,372.00	\$ 2,133.08		\$ 651.10	\$ 14,265.19	\$ 25,216.99	\$ 128,962.50	\$ 1,009,336.09

LEE											
P-68	\$ 33,556.01	\$ 156,445.64		\$ 28,769.24	\$ 4,371.22				\$ 13,201.24		\$ 236,343.36
P-149	74,513.96			13,495.76	2,318.99		\$ 600.00		10,881.34		\$ 101,810.05
B-2								11,061.23			\$ 11,061.23
B-100								28,254.66	1,338.05		\$ 29,592.71
*Redmp.										\$ 25,981.66	\$ 25,981.66
Total...	\$ 108,069.97	\$ 156,445.64		\$ 42,265.00	\$ 6,690.21		\$ 600.00	\$ 39,315.89	\$ 25,420.63	\$ 25,981.66	\$ 404,789.01

LINN											
22	\$ 75,550.50		\$ 388,221.06	\$ 20,060.33	\$ 2,735.46				\$ 12,752.44		\$ 409,324.79
96	53,147.34			8,950.40	1,373.53				5,719.89		\$ 69,191.07
P-257	1,789.47										\$ 1,789.47
*Interest										\$ 18,611.64	\$ 18,611.64
Total...	\$ 130,487.31		\$ 388,221.06	\$ 29,010.73	\$ 4,108.99				\$ 18,472.24	\$ 18,611.64	\$ 588,916.97

LOUISA											
53	\$ 130,238.27			\$ 20,753.36	\$ 3,352.40				\$ 7,834.57		\$ 152,178.60
P-75	6,615.09			1,213.39					334.78		\$ 8,183.08
P-179	2,811.60								107.90		\$ 2,919.50
B-4								\$ 65,441.94	533.00		\$ 65,974.94
B-111								5,892.42	217.73		\$ 6,110.15
*Interest										\$ 509.99	\$ 509.99
Total...	\$ 129,664.87			\$ 21,966.66	\$ 3,352.40			\$ 71,334.36	\$ 9,047.98	\$ 509.99	\$ 235,876.26

LUCAS											
63	\$ 199,168.41			\$ 3,177.47	\$ 13,749.54				\$ 9,289.81		\$ 225,385.23
B-8									18.75		\$ 18.75
B-10											\$ 5,187.44
B-101									5,187.44		\$ 5,187.44
*Redmp.									14,792.40		\$ 14,792.40
*Interest										\$ 57,702.50	\$ 57,702.50
Total...	\$ 199,168.41			\$ 3,177.47	\$ 13,749.54			\$ 52,692.16	\$ 9,024.96	\$ 58,080.00	\$ 336,463.44

LYON											
110	\$ 105,026.75			\$ 9,744.96					\$ 4,690.37		\$ 119,432.08
P-85	46,945.59	\$ 502.50		1,791.17			\$ 93.00		3,350.47		\$ 52,742.73
P-146	31,020.89			2,126.78					2,509.13		\$ 35,656.80
P-174		38,547.40							695.79		\$ 39,243.19
P-229	34,402.01			1,562.43			1,250.00		2,272.04		\$ 39,476.48
P-292		14,880.41							46.39		\$ 14,926.71
P-307	1,357.70	18,978.89							244.58		\$ 20,541.17
B-66								\$ 9,778.83			\$ 9,778.83
B-84								10,514.91	55.95		\$ 10,570.86
B-127								12,401.91	431.59		\$ 12,833.50
B-179								19,808.13	392.88		\$ 20,291.01
Total...	\$ 218,752.94	\$ 72,900.20		\$ 15,215.34			\$ 1,343.00	\$ 52,508.78	\$ 14,659.10		\$ 375,532.36



## SCHEDULE NO. 74—Continued

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IOWA STATE HIGHWAY COMMISSION

Project Number	Grading	Graveling	Paving	Drainage	Guard Rail	Machinery Equip. and Repairs	Right of Way	Bridges	Engineering	Bond Cert. Redemp. and Cert. Int.	Total
MADISON											
169	\$ 27,544.09			\$ 711.40	\$ 1,288.17				\$ 4,707.30		\$ 31,250.96
P-36	171,900.41			1,782.01	6,386.24				10,641.54		190,800.20
B-5								\$ 79,911.34			79,911.34
B-180								13,266.76	16.00		13,282.76
*Redmp.										\$ 39,165.00	39,165.00
Total	\$ 199,534.50			\$ 2,493.41	\$ 7,674.41			\$ 93,178.10	\$ 15,364.84	\$ 39,165.00	\$ 337,410.26

MAHASKA											
70	\$ 132,975.42	\$ 1,285.20		\$ 23,150.47	\$ 9,151.57		\$ 7,600.00		\$ 15,534.95		\$ 189,697.41
146	87,921.05			9,880.53	6,626.35		1,582.50		7,149.26		113,159.69
B-27								\$ 33,223.58	30.75		33,254.33
F.A.B.78								8,004.15	414.65		8,418.80
B-122								29,064.91	625.56		29,690.47
B-129								53,744.21	1,065.74		54,809.95
B-139								2,015.00			2,015.00
Total	\$ 220,896.47	\$ 1,285.20		\$ 33,031.00	\$ 15,777.72		\$ 9,182.50	\$ 126,051.85	\$ 24,850.91		\$ 431,075.6

MARION											
7	\$ 73,308.74			\$ 760.82							\$ 74,069.56
75	139,305.08			3,185.99	\$ 1,759.63		\$ 12,156.00		\$ 7,648.84		164,055.57
P-315	13,032.52			4,120.86			22,418.40		7,527.27		47,000.05
B-119								\$ 9,596.65			9,596.65
B-151								13,210.00	811.27		14,021.27
Total	\$ 225,646.34			\$ 8,067.67	\$ 1,759.66		\$ 34,574.40	\$ 22,806.65	\$ 15,987.38		\$ 308,842.10

MARSHALL											
23	\$ 25,071.98		\$ 249,359.24	\$ 897.25	\$ 93.80	\$ 54,250.52			\$ 8,453.13		\$ 338,125.92
P-13	40,793.95			3,780.64	1,475.76				1,851.05		47,001.40
P-240	59,402.89			3,321.17					1,674.31		64,398.37
B-54								\$ 19,577.14	306.36		19,883.50
B-159								41,488.26	942.04		42,430.30
*Redmp.										\$ 19,850.00	19,850.00
+Interest										3,677.42	3,677.42
Total	\$ 125,268.82		\$ 249,359.24	\$ 7,999.06	\$ 1,569.56	\$ 54,250.52		\$ 61,065.40	\$ 13,226.89	\$ 23,527.42	\$ 536,266.91

MILLS											
15	\$ 196,382.41			\$ 123.50	\$ 7,209.08				\$ 7,451.67		\$ 211,166.66
B-11								\$ 79,658.61	589.00		80,247.61
*Redmp.										\$ 51,652.08	51,652.08
+Interest										5,719.55	5,719.55
Total	\$ 196,382.41			\$ 123.50	\$ 7,209.08			\$ 79,658.61	\$ 8,040.67	\$ 56,771.63	\$ 348,185.90

MITCHELL											
45	\$ 77,444.05	\$ 57,299.28		\$ 37,119.19	\$ 1,480.39	\$ 8,905.00			\$ 7,206.72		\$ 180,644.54
P-138	40,261.67	18,493.93		25,616.49	3,559.86	228.04			6,097.55		94,837.54
B-161				886.76							886.76
*Redmp.										\$ 46,537.50	46,537.50
*Redmp.										112.07	112.07
Total	\$ 117,705.72	\$ 75,793.21		\$ 63,622.44	\$ 5,040.16	\$ 9,133.04			\$ 14,094.27	\$ 46,649.57	\$ 332,638.41

MONONA											
184	\$ 29,418.72			\$ 1,500.00		\$ 15,184.94			\$ 1,771.84		\$ 47,875.50
P-38	122,186.99			3,825.92	\$ 5,723.32	16,907.09			10,019.51		158,653.77
B-48								\$ 149,566.09	2,683.48		152,249.57
B-171								8,724.56	382.67		9,107.23
Total	\$ 151,605.71			\$ 5,325.92	\$ 5,723.32	\$ 32,091.94		\$ 158,290.65	\$ 14,848.53		\$ 367,826.07

FINANCIAL STATEMENT

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SCHEDULE NO. 74—Continued

218

IOWA STATE HIGHWAY COMMISSION

Project Number	Grading	Graveling	Paving	Drainage	Guard Rail	Machinery Equip. and Repairs	Right of Way	Bridges	Engineering	Bond Cert. Redemp. and Cert. Int.	Total
MONROE											
20	\$ 83,703.18			\$ 609.17	\$ 2,106.84						\$ 86,419.16
P-78	52,205.57			1,164.83	3,840.73		\$ 630.00		\$ 2,666.16		\$ 60,507.29
P-24	12,811.72			1,848.37			\$ 8,834.38		2,159.59		25,654.06
B-28								\$ 20,133.87	34.55		20,168.42
B-201								13,033.97	554.50		13,588.47
B-211								1,155.00			1,155.00
C-16	1,738.10		27,424.66	1,506.16					1,376.30		32,135.22
Total	\$ 150,458.57		\$ 27,424.66	\$ 5,218.53	\$ 5,947.57		\$ 9,464.38	\$ 34,322.84	\$ 6,791.10		\$ 239,627.65

MONTGOMERY											
16	\$ 207,302.16			\$ 497.45	\$ 2,834.35	\$ 94.70			\$ 8,654.07		\$ 219,382.73
B-195								\$ 10,838.27			10,838.27
*Redmp.										\$ 30,539.20	30,539.20
+Interest										10,749.48	10,749.48
Total	\$ 207,302.16			\$ 497.45	\$ 2,834.35	\$ 94.70		\$ 10,838.27	\$ 8,654.07	\$ 41,288.68	\$ 271,509.63

MUSCATINE											
40	\$ 104,303.03			\$ 15,890.23	\$ 1,861.85				\$ 8,215.77		\$ 130,360.88
87	62,284.66	\$ 18,134.06		7,126.70	3,109.42				10,951.68		101,606.52
B-49								\$ 42,892.36	2,416.53		45,308.89
*Redmp.										\$ 40,652.00	40,652.00
Total	\$ 166,677.69	\$ 18,134.06		\$ 23,016.93	\$ 4,971.27			\$ 42,892.36	\$ 21,583.98	\$ 40,652.00	\$ 317,928.29

O'BRIEN											
43	\$ 114,925.59		\$ 1,018,733.19	\$ 18,290.46					\$ 26,346.47		\$ 1,172,295.71
P-69	26,616.39			7,289.16					2,677.84		36,583.39
B-197								\$ 16,038.67	858.40		16,897.07
Bond										\$ 100,000.00	\$ 100,000.00
Total	\$ 141,541.98		\$ 1,018,733.19	\$ 25,579.62				\$ 16,038.67	\$ 23,882.71	\$ 100,000.00	\$ 1,325,776.17

OSCEOLA											
P-15	\$ 80,282.12			\$ 12,517.98	\$ 7,610.46				\$ 3,624.50		\$ 104,035.06
P-100		\$ 16,124.11							709.29		16,833.40
P-197	30,940.82			2,026.04	765.43				7,272.19		41,004.48
P-201	1,665.00	664.16							339.45		2,669.21
P-202		34,361.73							1,056.05		35,417.78
P-206		9,735.23							503.00		10,238.23
P-355		8,626.46							106.70		8,733.16
B-87								\$ 10,182.75			\$ 10,182.75
B-219								3,714.85	\$ 13.75		3,728.60
B-200								3,307.04	68.40		3,375.44
Total	\$ 112,828.54	\$ 60,511.00		\$ 14,544.02	\$ 8,375.89			\$ 17,204.64	\$ 13,684.33		\$ 236,149.11

PAGE											
137	\$ 2,543.77								\$ 1,234.49		\$ 3,778.26
178	34,367.00								2,833.41		37,200.41
P-27	203,977.14								9,083.91		213,061.05
B-250									565.79		19,646.52
B-251									23.25		23.25
Total	\$ 240,887.91							\$ 19,090.73	\$ 13,740.85		\$ 273,719.49

PALO ALTO											
109	\$ 93,318.02	\$ 8,245.28	\$ 414,188.21	\$ 17,052.17		\$ 29,701.77			\$ 13,407.15		\$ 535,912.60
General											1,100.00
*Redmp.										\$ 63,508.40	63,508.40
+Interest										14,682.14	14,682.14
Total	\$ 93,318.02	\$ 8,245.28	\$ 414,188.21	\$ 18,152.17		\$ 29,701.77			\$ 13,407.15	\$ 78,190.54	\$ 615,203.14

PLYMOUTH											
38	\$ 113,131.18			\$ 1,376.88	\$ 7,154.31				\$ 6,730.37		\$ 128,392.74
181	25,646.88								1,968.24		28,615.12
192	25,688.57								2,675.30		30,121.37
P-39	59,763.81			3.96	331.63				3,920.01		64,019.41
P-74	42,327.55								3,332.33		45,659.88
P-353	1,107.00										1,107.00
B-35											49,900.28
B-81									49,900.28		49,900.28
B-106									22.50		22.50
Total	\$ 248,556.99			\$ 1,380.84	\$ 7,485.94				\$ 14,656.50		\$ 271,979.25

FINANCIAL STATEMENT

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SCHEDULE NO. 74—Continued

220

IOWA STATE HIGHWAY COMMISSION

FINANCIAL STATEMENT

121

Project Number	Grading	Graveling	Paving	Drainage	Guard Rail	Machinery Equip. and Repairs	Right of Way	Bridges	Engineering	Bond Cert. Redemp. and Cert. Int.	Total
PLYMOUTH—Continued											
B-212											
F.A.B.181								25,789.50	1,278.04		27,067.54
F.A.B.192								47,489.19	1,635.53		49,124.72
Total....	\$ 267,074.49			\$ 1,380.84	\$ 7,485.94		\$ 8,816.50	\$ 171,000.15	\$ 21,502.92		\$ 478,610.84
POCAHONTAS											
P- 7	\$ 27,739.78			\$ 13,352.46							
P- 20	16,643.60	\$ 50,780.13		24,505.05					2,250.92		\$ 43,313.16
P- 90	27,945.91	38,170.24		22,668.53					3,977.22		95,906.00
P- 91	3,551.78	57,506.37		11,381.80					4,508.07		93,382.75
P-339	3,015.91	11,119.89							2,959.19		75,402.14
P-218							\$ 98.45		707.99		14,942.24
*Redmp.									153.14		7,076.39
†Interest								\$ 6,923.25			43,574.20
Total....	\$ 78,809.98	\$ 157,576.63		\$ 71,907.84			\$ 98.45	\$ 6,923.25	\$ 14,616.53	\$ 45,202.05	\$ 375,314.73
POLK											
89	\$ 20,100.13		\$ 338,959.01	\$ 1,813.64	\$ 289.12				\$ 9,117.93		\$ 370,339.83
104	35,386.23		321,815.80	5,835.30	264.00				9,448.89		372,750.22
132	36,908.11		352,808.07	2,244.64					17,157.02		409,177.84
180	9,798.79		218,424.65	2,034.02					5,068.61		235,316.07
187	22,036.34		225,783.56						6,331.96		254,151.76
199	6,213.74								1,992.67		8,650.24
P- 1	30,092.60		33,321.03	361.03			\$ 82.80		1,105.42		65,516.75
P- 3	10,771.44			997.70							10,771.44
P- 40	44,339.04		175,870.41	825.87	2,708.09				5,560.04		229,302.95
P- 59	6,276.27			3,841.83					195.00		10,313.10
P- 72	60,632.96			5,902.07	3,006.84				2,006.49		71,638.96
P-115	19,277.54	\$ 14,302.75		3,746.20					635.00		23,659.34
P-122				6,287.21					232.00		14,554.75
P-244	25,578.90								1,480.70		33,316.81
P-258	5,445.75		26,342.43	1,653.75					1,301.57		34,743.50
P-280	1,376.20	710.50	1,379.24								3,465.94
P-319	2,273.62						10,000.00				12,273.62
*Redmp.										\$ 54,000.00	54,000.00
Total....	\$ 336,627.66	\$ 15,013.25	\$ 1,094,704.20	\$ 35,512.76	\$ 6,268.05		\$ 10,082.80	\$ 61,733.80	\$ 54,000.00		\$ 2,213,972.52
POTTAWATTAMIE											
46	\$ 49,621.89			\$ 2,837.74				\$ 1,500.74			\$ 54,050.37
P- 21	74,788.10			2,088.30				9,744.93			86,621.33
P- 22	134,819.64			2,903.70	4,501.80			7,638.48			149,863.62
P- 92	63,132.31			1,164.70				4,060.68			68,357.69
B- 95								\$ 110,295.57	2,342.93		112,638.50
B- 96								105,759.30	3,208.20		108,967.50
B- 97								50,911.64	652.72		51,564.36
*Redmp.										\$ 81,500.00	81,500.00
Total....	\$ 322,361.94			\$ 6,156.70	\$ 7,339.54			\$ 266,966.51	\$ 29,238.68	\$ 81,500.00	\$ 713,563.37
POWESHIEK											
174	\$ 76,876.95		\$ 11,351.56					\$ 6,079.72			\$ 94,308.23
P- 41	69,193.49		10,264.14	\$ 1,881.63				6,534.65			87,873.91
P-247	21,916.46							13,883.64			35,800.10
B- 15								\$ 21,442.43	1,357.44		22,799.87
B-134								15,067.17	1,200.87		16,268.04
B-155								25,525.63	778.45		26,304.08
Total....	\$ 167,986.90		\$ 21,615.70	\$ 1,881.63				\$ 62,575.23	\$ 29,834.77		\$ 283,804.23
RINGGOLD											
6	\$ 109,444.45		\$ 8,867.15					\$ 3,853.93			\$ 122,165.53
123	100,372.98		2,395.20			\$ 1,534.00		7,471.29			111,773.53
141	12,368.23		680.94			5,024.76		1,346.02			20,029.55
142	19,268.21		1,206.05			2,026.45		2,025.54			24,526.25
B- 47								\$ 11,876.09	181.33		12,057.33
B- 47								57,566.71	1,296.15		58,862.86
B-123								27,494.29	1,111.28		28,605.57
B-124								13,906.66	519.02		14,425.68
Total....	\$ 241,453.87		\$ 680.94	\$ 12,468.46		\$ 9,155.21	\$ 110,833.66	\$ 17,805.16			\$ 392,427.50



## SCHEDULE NO. 74—Continued

Project Number	Grading	Graveling	Paving	Drainage	Guard Rail	Machinery Equip. and Repairs	Right of Way	Bridges	Engineering	Bond Cert. Bodup. and Cert. Int.	Total
P-10	46.80	20,500.00		4,493.25					1,035.91		25,036.96
P-11	2,557.54	22,551.00		12,339.27					2,256.94		79,705.45
P-12	3,597.25	1,702.00		1,702.00					288.96		8,888.79
P-13	1,514.25	1,514.25		1,514.25					1,514.25		5,057.00
P-210	7,446.25	9,439.27		1,162.78					2,154.80		30,784.17
P-304	1,230.16	25,000.01		2,648.56					3,111.02		34,999.86
Interest										613.44	613.44
Total	14,447.96	230,459.86		34,847.28					13,002.14	613.44	300,365.66

## SAC

P-54	22,704.07		134,292.86	6,156.25					4,635.20		165,655.45
P-55	12,154.02	617.49	174,972.39	17,364.12	4,777.11				24,266.11		279,179.23
P-114	139,488.27		1,041,564.09	2,820.79					24,405.46		1,281,894.65
P-120	22,631.21		78,233.34	2,820.79					2,712.83		116,999.17
P-121	27,259.74		300,022.71	4,006.66					8,156.59		340,465.60
P-124				3,406.66					301.25		3,808.91
P-125				6,506.35					1,895.01		8,401.36
Interest										630.76	630.76
Total	272,816.83	517.50	2,290,392.39	40,167.83	4,777.11			25,508.92	71,862.35	630.76	2,779,276.90

## SCOTT

## SHELBY

P-42	253,270.08			1,426.00	4,459.11				12,042.39		273,221.39
P-16	1,000.15		21,692.96						1,365.64		22,698.75
Bodup.									1,890.10		1,890.10
Interest										40,466.27	40,466.27
Total	255,070.13		21,692.96	1,426.00	4,459.11			56,216.11	270.54	40,466.27	279.54

## SIOUX

P-28	96,292.65		122,828.19	2,322.64	4,382.19				7,456.95		190,736.04
P-29	12,665.05		101,937.05	873.19	1,043.80				5,484.56		143,963.47
P-67	10,821.67			6,129.15	914.05				2,712.31		11,766.03
P-108	4,070.41								6,900.96		10,971.37
P-223	28,435.55		45,328.70		884.08				3,716.67		74,796.17
P-299	10,115.41		10,115.41						210.17		10,195.96
P-324	1,280.50		19,587.02						602.73		2,430.17
P-327	24,265.61								34,480.73		58,746.34
B-22									328.81		328.81
B-22									259.25		259.25
Total	215,839.32	97,082.45	254,760.24	9,668.73	6,270.18			10,776.82	65,003.38	5,119.08	665,662.14

## STORY

P-132	42,111.32			31,708.42					5,604.00		120,196.22
P-133	660.50			27,417.57					1,729.10		29,797.17
P-231	14,352.25		54,945.70	840.00					1,384.23		75,384.46
P-282	2,284.40			1,219.72	5,566.63				600.23		9,069.34
P-332									588.66		588.66
P-331									547.00		547.00
P-131									665.94		665.94
B-135									94.46		94.46
C-9									23,432.53		23,432.53
Bodup.									12,165.95		12,165.95
Total	90,334.96	112,661.65	58,145.55	91,186.31	5,566.63			40.50	10,026.32	27,167.50	417,725.37

## TAMA

47	151,971.96	105,414.46		15,317.02	5,236.24				13,664.10		391,355.97
P-276	25,130.23			2,706.46	2,835.50				4,691.19		35,119.04
B-24	77,771.05			1,885.00					1,312.11		80,152.39
B-24									89,640.25		89,640.25
Total	284,822.44	105,414.46		19,898.48	4,003.54			127,691.14	24,725.67		572,899.12



## SCHEDULE NO. 74—Continued

Project Number	Grading	Graveling	Paving	Drainage	Guard Rail	Machinery Equip. and Repairs	Right of Way	Bridges	Engineering	Bond Cert. Redemp. and Cert. Int.	Total
TAYLOR											
81	\$ 95,908.83			\$ 1,839.40	\$ 5,615.50				\$ 5,775.71		\$ 108,539.23
B-149	79,229.56			48.25					5,621.82		84,899.63
B-17								\$ 15,382.90	301.65		15,684.55
B-121								\$ 43,215.77	988.66		44,204.43
B-213								88,251.27	1,120.75		89,372.02
Total	\$ 175,139.39			\$ 1,907.65	\$ 5,615.50			\$ 146,848.04	\$ 13,708.50		\$ 342,909.25
UNION											
83	\$ 119,332.11			\$ 3,550.56	\$ 8,352.31		\$ 1,627.50		\$ 7,802.35		\$ 140,665.83
B-42								\$ 43,799.92	923.43		44,723.35
Total	\$ 119,332.11			\$ 3,550.56	\$ 8,352.31		\$ 1,627.50	\$ 43,799.92	\$ 8,725.78		\$ 185,389.18
VAN BUREN											
60	\$ 60,708.51			\$ 23,301.63	\$ 1,389.22		\$ 11,540.00		\$ 4,789.47		\$ 101,728.83
B-165	43,247.66						7,517.00		4,364.17		57,128.83
B-37								\$ 13,964.78			13,964.78
B-75								12,410.80			12,410.80
B-132								56,886.91	1,531.63		58,418.54
Total	\$ 105,956.17			\$ 23,301.63	\$ 1,389.22		\$ 19,057.00	\$ 67,202.49	\$ 10,685.27		\$ 223,661.78
WAPELLO											
42	\$ 102,548.53				\$ 7,067.44				\$ 6,117.27		\$ 115,732.24
B-119	105,472.99			\$ 3,870.04	\$ 3,499.88		\$ 464.66		8,326.15		121,623.72
C-2								\$ 53,518.42	1,029.16		54,547.58
*Redemp.				\$ 75,132.00						\$ 25,910.41	25,910.41
Total	\$ 208,021.52			\$ 75,132.00	\$ 3,870.04	\$ 10,567.32	\$ 464.66	\$ 53,518.42	\$ 15,469.58	\$ 25,910.41	\$ 302,973.95
WARREN											
11	\$ 72,671.07			\$ 3,891.19	\$ 6,136.10		\$ 16,765.84		\$ 8,175.48		\$ 107,609.58
P-44	60,305.02			875.39	2,683.97		850.00		5,066.22		79,749.00
P-223	7,379.30			561.91					937.32		8,909.44
P-291		\$ 3,321.28							334.13		3,655.41
P-321									314.74		314.74
B-21								\$ 5,314.66			5,314.66
B-40								20,560.45	661.80		21,222.25
B-93								1,110.39			1,110.39
B-99								37,716.53	1,100.25		38,816.78
B-110								2,662.00	40.63		2,702.63
B-120									14.49		14.49
Total	\$ 149,355.61	\$ 3,321.28		\$ 5,328.18	\$ 9,820.07		\$ 17,615.84	\$ 67,758.34	\$ 16,404.66		\$ 299,603.98
WASHINGTON											
71	\$ 63,460.55			\$ 7,240.98	\$ 2,137.07		\$ 5,244.39		\$ 7,390.37		\$ 84,923.17
167	68,911.91			7,591.89			2,639.55		5,443.90		83,967.25
P-353	15,996.09			1,117.83			1,103.24		2,480.12		23,676.25
P-366	31,143.98						109.65		2,350.00		33,603.63
B-39											15,736.29
B-86								\$ 36,451.39	14.25		36,465.64
B-133								58,563.02	661.76		59,164.78
								46,650.44	461.80		47,112.24
Total	\$ 182,062.50	\$ 13,736.29		\$ 15,966.70	\$ 2,137.07		\$ 8,487.64	\$ 131,064.85	\$ 18,721.20		\$ 372,790.25
WAYNE											
91	\$ 150,290.74			\$ 4,377.22	\$ 4,961.90				\$ 9,398.62		\$ 169,028.48
B-130	60,300.08			2,810.94	4,473.27				6,184.37		85,968.66
B-164							\$ 15,475.85				15,475.85
B-165							39,149.18		1,917.76		41,066.94
							31,366.54		875.54		32,242.08
Total	\$ 219,490.82			\$ 7,388.16	\$ 9,435.17		\$ 55,831.57	\$ 18,186.49			\$ 340,322.71
WEBSTER											
13	\$ 55,492.24	\$ 81,633.41		\$ 25,105.10	\$ 472.44				\$ 1,452.34		\$ 162,095.53
P-25	57,458.81			28,297.71					3,582.02		86,288.54
P-64	27,984.63	92.60		30,388.77					5,290.45		53,655.85
P-108	845.10	24,274.56		6,065.35					709.13		31,944.34



## IOWA STATE HIGHWAY COMMISSION

SCHEDULE NO. 74—Continued

Project Number	Grading	Graveling	Paving	Drainage	Guard Rail	Machinery Equip. and Repairs	Right of Way	Ironing	Engineering	Road Const. Road Int.	Total
P-111	247.50	20,230.00							937.77		21,004.27
P-182	322.73	17,141.51		1,300.70					497.25		19,111.20
P-183	1,111.00	77,415.00							238.73		11,798.01
P-184	5,473.60	2,445.33		7,436.83					1,350.96		19,305.53
P-207										72,861.10	72,861.10
*Road Int.										1,341.50	1,341.50
Total	\$ 147,867.50	\$ 109,440.33		\$ 86,435.00	\$ 472.44				\$ 16,942.90	\$ 73,000.00	\$ 397,104.40

## WEINSTEIL—Continued

## WINNEBAGO

P-20	29,116.71	29,410.84		11,456.31	1,510.71				2,002.54		70,471.01
P-2	11,906.98	77,415.00		11,456.31	2,708.14				3,242.84		106,334.33
*Road Int.	26,441.15	6,987.46		22,081.86					4,487.04		56,957.51
*Interest										531.79	531.79
Total	\$ 66,528.41	\$ 139,652.30		\$ 51,379.97	\$ 4,218.85				\$ 9,710.02	\$ 53,110.34	\$ 223,155.08

## WINNEBAGO

P-18	215,641.51			17,824.08	8,107.30				11,790.12		254,364.00
P-21	75,250.10			30,307.22	3,702.00				7,394.75		116,654.07
P-24									24,202.65		24,202.65
P-146									33,366.05		33,366.05
C-10									31,702.41		31,702.41
*Road Int.									897.02		897.02
*Interest									5,794.55		5,794.55
Total	\$ 292,896.61			\$ 58,131.29	\$ 11,809.30				\$ 125,501.32	\$ 36,197.50	\$ 527,686.30

## WOODBURY

P-2	202,000.00			1,005.15	19,300.45				29,125.91		242,431.51
P-78	27,230.00			2,715.00					2,527.73		32,472.73
P-100	31,220.07			117.00					3,900.37		35,467.44
P-101	138,907.77								2,900.37		141,808.14
P-102	56,006.41								18,480.80		74,487.21
P-105	149,177.43			12,463.96					11,210.50		172,851.89
P-207	1,787.22								21,031.03		22,818.25
*Road Int.									1,450.30		1,450.30
*Interest										36,197.50	36,197.50
Total	\$ 687,430.47			\$ 13,183.11	\$ 19,302.45				\$ 52,796.58		\$ 763,832.51

## WOORTH

P-134	46,225.44			15,105.20							61,330.64
P-161				30,070.80							30,070.80
P-16	77,380.83			9,000.80	2,271.40						88,653.03
Total	\$ 123,606.27			\$ 54,185.56	\$ 2,271.40				\$ 32,077.79	\$ 11,633.97	\$ 199,425.00

## WRIGHT

P-29	46,964.51			22,544.28					5,067.26		74,576.05
P-10	51,000.77			12,075.98					4,017.27		67,094.02
P-101	1,000.00								5,184.14		6,184.14
P-200	27,102.00										27,102.00
P-241	2,800.00			656.45							3,456.45
P-28									12.00		12.00
P-188									6,014.75		6,014.75
*Road Int.									15.00		15.00
*Interest										39,012.76	39,012.76
Total	\$ 131,664.12			\$ 56,415.50	\$ 1,423.97				\$ 35,467.20	\$ 18,776.42	\$ 245,803.21

Total	\$ 131,664.12			\$ 56,415.50	\$ 1,423.97				\$ 35,467.20	\$ 18,776.42	\$ 245,803.21
Grand Total	\$ 77,342,325.54	\$ 81,204,621.92	\$ 115,430,513.00	\$ 27,270,220.78	\$ 400,230.53	\$ 107,496.00	\$ 886,304.42	\$ 35,180,790.56	\$ 71,772,019.95	\$ 21,481,419.46	\$ 497,367,972.99

## FINANCIAL STATEMENT



## IOWA STATE HIGHWAY COMMISSION

## SCHEDULE NO. 75

SHOWING TOTAL AND RELATIVE COST OF MAINTENANCE OF EARTH, GRAVEL AND PAVED ROADS BY COUNTIES, PRIMARY ROAD SYSTEM, DECEMBER 1, 1922 TO NOVEMBER 30, 1922

County	Earth Roads			Gravel Roads			Paving Roads			Total Cost Earth, Gravel and Paving Maintenance
	Number of Miles	Total Cost of Maintenance	Average Per Mile	Number of Miles	Total Cost of Maintenance	Average Per Mile	Number of Miles	Total Cost of Maintenance	Average Per Mile	
Adair	56.5	\$ 24,341.83	431							\$ 94,511.52
Adams	32.1	12,032.57	373							13,285.13
Albion	84.5	13,286.13	157							10,294.17
Appanoose	57.2	19,794.17	346							14,739.05
Ashtabula	89.6	27,684.66	308	8.0	5.0		0.6	\$ 400.44	48	27,545.10
Benton	47.2	17,064.00	361	61.4	15,580.29	252	21.2	2,709.65	128	19,809.17
Black Hawk	31.5	11,823.65	375	30.7	6,109.94	197	15.1	2,034.33	136	11,801.79
Bloomington	60.9	13,731.55	225							12,732.43
Bremer	31.5	10,668.19	339	66.6	19,422.02	412				28,879.98
Buchanan	27.8	9,945.48	357	43.6	13,285.70	307				41,406.13
Butler	72.8	26,626.44	365	23.1	11,743.36	512	0.5	3.00	60	24,762.06
Calhoun	37.1	9,945.48	268							16,422.02
Carroll	73.9	26,626.44	360	11.7	5,838.28	501	33.2	5,096.93	153	17,453.66
Cedar Rapids	8.9	5,667.61	636	45.4	6,260.92	139	0.5			11,531.04
Cherokee	31.2	5,667.61	181	27.8	11,743.36	423				34,082.12
Chickasaw	44.6	14,231.64	318							34,082.12
Clarke	41.6	14,231.64	342	53.6	32,650.48	608				16,422.02
Clayton	91.1	17,882.40	196	14.1	22,659.40	161	33.3	6,645.33	174	19,422.02
Clinton	43.5	12,846.46	295	8.1						16,422.02
Crawford	29.1	6,070.33	208	28.6	20,828.75	355				16,422.02
Dallas	52.1	18,774.40	360							16,422.02
DeKalb	52.1	18,774.40	360							16,422.02
DeKalb	52.1	18,774.40	360							16,422.02
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DeKalb	52.1	18,774.40	360							16,422.02
DeKalb	52.1	18,774.40	360							16,422.02
DeKalb	52.1	18,774.40	360							16,422.02
DeKalb	52.1	18,774.40	360							16,422.02
DeKalb										

## FINANCIAL STATEMENT

Greene	36.9	9,546.05	258.69	29.0	31,384.57	1,082	7.5	1,670.98	223	42,001.30	
Grundy	36.9	9,546.05	258.69	149	9,000.85	601				14,908.30	
Guthrie	18.2	38,099.17	2,093.35	305	13,500.25	525				39,642.54	
Hancock	18.4	5,644.35	306.76	198	5,806.34	599	24.3	2,211.31	132	12,702.90	
Harmon	0.7									12,000.20	
Henry	46.2	18,693.75	404.63	204	22,690.20	354				41,383.95	
Howard	38.2	9,442.34	247.18	289	5,904.82	185				9,442.34	
Humboldt	30.3	5,201.76	171.67	299	30,264.04	104				11,106.58	
Iowa	96.9	25,194.57	260.00	391	4,695.32	200				11,722.17	
Jackson	71.0	21,716.01	305.86	396	6.2	330.82	55			35,876.85	
Jacksonville	46.8	16,265.27	345.41	324	32,690.07	452				22,047.43	
Johnson	70.1	20,983.09	299.37	437	25,000.00	318				46,254.27	
Jones	46.9	20,229.02	431.34	474	8.1	2,717.43	240	2.8	422.40	111	20,386.46
Kossuth	79.2	13,565.27	171.27	233	76.7	41,620.25	541	12.5	1,824.31	43,812.83	
Lee	71.4	13,711.08	192.02	192	13.2	1,005.00	838			14,946.38	
Linn	78.2	22,210.39	284.02	347	12.1	3,851.00	318	1.3	1,901.02	24,267.41	
Lucas	56.0	10,698.37	191.04	187	20.3	10,356.57	207	6.0	192.30	10,498.27	
Lyon	15.4	8,848.01	574.55	329	44.5	38,380.01	549			47,228.28	
Madison	89.4	24,206.12	270.76	500	0.5	840.00	171	0.9	45.00	25,046.12	
Marion	89.3	27,185.05	304.43	501	9.0	2,172.25	231	22.5	1,907.72	29,092.30	
Marshall	42.8	9,831.16	230.00	329	20.9	7,873.07	302			27,118.66	
McDonald	35.7	7,831.30	219.36	459	15.4	10,142.15	650	11.0	864.35	16,694.23	
Monroe	76.2	15,067.03	197.73	435	0.5	40,224.44	611	53.7	12,013.50	57,238.21	
Montgomery	89.2	20,985.30	234.13	500	28.3	16,727.01	661			36,224.71	
Muscatine	51.0	11,597.48	227.40	219	1.3	1,006.17	839	1.1		12,603.79	
Muskegon	31.8	11,597.48	364.70	225	91.3	46,504.90	519	54.5	6,230.34	48,174.61	
Newton	58.7	21,156.75	358.70	300	9.8	5,006.49	581			23,803.79	
Osceola	52.5	5,056.75	95.36	225	66.3	3,160.12	60	4.5	60.53	11,946.46	
Palo Alto	117.4	22,467.39	191.39	277						50,173.12	
Plymouth	7.0	8,971.39	1,281.63	1,282							
Polk	140.7	20,981.31	149.04	431							
Polk & Atlantic	92.3	7,812.78	84.66	417							
Prentiss	50.3	1,039.05	20.66	125							
Ringgold	52.3	21,030.05	113.15	415							
Scott	7.9	3,797.97	480.75	63							
Seely	90.5	15,219.71	101.00	303							
Shelby	16.2	7,467.03	461.54	498							



## SCHEDULE NO. 75—Continued

County	Earth Roads			Gravel Roads			Paving Roads			Total Cost of Paving and Maintaining
	Number of Miles	Total Cost of Maintenance	Average Per Mile	Number of Miles	Total Cost of Maintenance	Average Per Mile	Number of Miles	Total Cost of Maintenance	Average Per Mile	
Tama	45.0	14,405.24	321	35.1	9,301.65	94				16,856.90
Taylor	44.8	14,621.50	327							14,621.50
Union	53.8	16,771.08	323							16,771.08
Van Buren	44.9	13,977.10	311							13,977.10
Wapello	41.2	12,577.00	305	1.6	401.11	269				13,000.30
Washington	82.2	31,284.77	384	1.2	1,421.89	107				32,706.66
Wayne	78.7	26,781.72	340	5.5	1,421.89	107				28,203.61
Webster	36.0	10,337.07	287	65.0	10,573.06	680				10,860.13
Winnebago	7.5	1,008.56	135	41.4	9,353.39	225				10,361.95
Winnow	71.0	21,807.77	307							21,807.77
Woodbury	22.9	5,480.59	240	27.1	8,540.83	313				14,021.42
Wright	28.6	4,906.97	167	27.1	8,540.83	313				13,457.80
Total	4,339.1	1,350,407.65	315	1,898.4	827,032.75	441	419.1	35,482.43	84	2,202,922.83

\*Average based on January 1, 1925 mileage.

## SCHEDULE NO. 76

SHOWING TOTAL COST OF ROAD AND BRIDGE MAINTENANCE AND AVERAGE COST PER MILE PRIMARY ROAD SYSTEM  
DECEMBER 1, 1925, TO NOVEMBER 30, 1925.

County	Number of Miles in System	Earth, Gravel and Paved Roads			Bridge Maintenance			Total Cost of Maintenance and Bridges	Average Cost of Maintenance Per Mile	Special Maintenance	Total Expenditures from December 1 to November 30, 1925
		Total Cost	Total	Average Per Mile	Total	Average Per Mile					
Adair	62.5	24,341.28	504.80	17			24,846.08	441		1,944.22	26,790.30
Adams	84.5	12,925.13	36.30	1			12,961.43	157			13,118.53
Albion	27.2	10,794.17	26.30	1			10,820.47	160		1,128.31	11,948.78
Appanoose	89.5	20,790.00					20,790.00	232		3,822.75	24,612.75
Ashtabula	86.5	27,552.00					27,552.00	363		1,646.42	29,198.42
Black Hawk	76.4	19,800.17	134.11	2			19,934.28	261			20,195.26
Bloom	77.9	16,913.94					16,913.94	217		1,210.30	18,124.24
Buchanan	46.6	12,752.43	166.07	4			12,918.50	277		4,676.76	17,595.26
Bureau	66.6	29,432.02	1,263.44	20			30,695.46	463		2,856.54	33,552.00
Butler	82.5	25,956.88					25,956.88	417		2,856.54	28,813.42
Calhoun	79.9	26,749.16					26,749.16	406		1,668.30	28,417.46
Carroll	77.2	15,629.54					15,629.54	207		1,279.51	16,909.05
Cass	74.0	17,453.60	65.13	2			17,518.73	235		1,279.51	18,798.24
Cedar	46.1	17,453.60	65.13	2			17,518.73	235		1,279.51	18,798.24
Cerro Gordo	52.8	15,629.54					15,629.54	169		1,279.51	16,909.05
Cherokee	77.2	12,790.15	101.68	4			12,891.83	169		1,279.51	14,171.34
Chickasaw	46.1	17,453.60	65.13	2			17,518.73	235		1,279.51	18,798.24
Clay	52.6	14,631.28	479.97	9			15,111.25	244		1,279.51	16,390.76
Clayton	105.2	19,700.30					19,700.30	171		1,279.51	20,979.81
Clinton	82.9	15,629.54					15,629.54	207		1,279.51	16,909.05
Crawford	82.9	27,790.28					27,790.28	337		1,279.51	29,069.79
Dallas	52.7	17,453.60	65.13	2			17,518.73	235		1,279.51	18,798.24
Davis	47.4	17,453.60	65.13	2			17,518.73	235		1,279.51	18,798.24
DeWitt	44.3	19,174.28	56.37	1			19,230.65	246		1,279.51	20,510.16
Dickinson	38.9	10,794.17					10,794.17	147		1,279.51	12,073.68
Dickinson	41.4	27,903.56	115.51	3			28,019.07	471		1,279.51	29,298.58
Emmet	41.8	5,623.05	106.00	3			5,729.05	137		1,279.51	7,008.56
Fayette	94.4	23,061.38					23,061.38	244		1,279.51	24,340.89
Floyd	82.5	27,903.56					27,903.56	337		1,279.51	29,183.07
Franklin	62.5	27,903.56					27,903.56	337		1,279.51	29,183.07



## SCHEDULE NO. 76—Continued

County	Number of Miles in System	Total Cost Maintenance Earth, Gravel and Paved Roads	Bridge Maintenance		Total Cost of Maintenance Roads and Bridges	Average Cost of Maintenance Per Mile	Special Case Maintenance	Total Expenditures, December 1, 1922, to November 30, 1923
			Total Cost	Average Per Mile				
Fremont	50.0	17,467.84	2,791.98	56	20,259.82	405	1,277.50	21,537.32
Greene	73.4	42,601.30			42,601.30	580	4,764.41	47,365.71
Grundy	64.6	14,962.30	22.50	1	14,984.80	232	554.38	15,539.18
Guthrie	71.9	38,439.52	391.25	6	38,830.77	540	2,406.51	41,237.28
Hamilton	68.3	20,002.54			20,002.54	293	319.34	20,321.88
Hancock	58.7	12,752.00			12,752.00	217		12,752.00
Hardin	62.9	22,020.20			22,020.20	350	119.71	22,139.91
Harrison	79.4	18,609.75			18,609.75	235	628.82	19,238.57
Henry	46.2	9,442.34	189.00	4	9,631.34	208	22.50	9,653.84
Howard	50.5	11,166.58			11,166.58	221	8.00	11,174.58
Humboldt	41.5	29,244.04			29,244.04	705	753.30	29,997.34
Ida	49.4	11,732.17	12.00	1	11,744.17	238		11,744.17
Iowa	66.9	35,876.85	2,050.48	31	37,927.33	567	938.74	38,866.07
Jackson	77.2	22,047.43	1,276.00	17	23,323.43	302		23,323.43
Jasper	87.6	42,812.64	218.25	3	43,030.89	491	992.37	44,023.26
Jefferson	46.8	16,254.27			16,254.27	347	340.50	16,594.77
Johnson	73.9	30,385.40			30,385.40	411	5,028.23	35,413.63
Jones	55.0	24,946.45	16.65	1	24,963.10	454	2,695.91	27,659.01
Keokuk	79.2	19,175.92	35.00	1	19,210.92	243	1,148.35	20,359.27
Kossuth	89.2	43,812.83			43,812.83	491		43,812.83
Lee	84.6	24,806.38			24,806.38	293	161.20	24,967.58
Linn	98.7	32,239.21			32,239.21	327	7,320.63	39,559.84
Louisa	52.1	8,391.04			8,391.04	161		8,391.04
Lucas	56.0	10,498.37	805.82	14	11,304.19	202	722.35	12,026.54
Lyon	65.7	14,274.88	33.95	1	14,308.83	218	357.56	14,666.39
Madison	54.6	20,999.40			20,999.40	385	537.35	21,536.75
Mahaska	86.4	25,074.37			25,074.37	290		25,074.37
Marion	93.3	27,195.05	1,393.68	15	28,588.73	306	2,239.01	30,827.74
Marshall	48.8	10,007.46			10,007.46	205	1,771.73	11,779.19
Mills	49.9	19,815.21	530.62	11	20,345.83	408	177.80	20,523.63
Mitchell	60.5	33,930.31			33,930.31	561	1,899.73	35,830.04
Monona	76.2	15,637.03	1,246.20	17	16,883.23	222	465.66	17,348.89
Monroe	58.3	19,897.90	1,078.43	18	20,976.33	390	314.47	21,290.80
Montgomery	52.2	23,518.11	1,557.60	30	25,075.71	403	2,599.51	27,675.22
Muscatine	80.9	23,308.69	1,601.69	21	25,000.38	309	789.17	25,789.55
O'Brien	74.3	13,305.26	201.63	3	13,506.83	182	352.85	13,859.68
Osceola	41.5	8,800.72			8,800.72	212		8,800.72

Page	53.7	21,118.66			21,118.66	390		21,118.66
Palo Alto	48.9	16,064.23			16,064.23	329	388.49	16,452.72
Plymouth	118.9	32,467.30			32,467.30	273	131.10	32,598.40
Pocahontas	65.3	40,234.44	793.30	11	40,937.74	627	344.29	41,282.03
Polk	91.0	38,324.71			38,324.71	421	3,207.12	41,531.83
Pottawattamie	143.1	61,647.48	1,581.99	11	63,229.47	442	2,423.16	65,652.63
Poweshiek	66.8	24,307.88			24,307.88	364	527.19	24,835.07
Ringgold	52.3	21,812.78	764.10	2	22,576.88	432		22,576.88
Sac	91.3	48,174.91	38.50	1	48,213.41	528	2,181.83	50,395.24
Scott	72.2	15,833.80	40.10	1	15,873.90	220	39.75	15,913.65
Shelby	50.5	15,219.71	1,230.94	24	16,450.65	326	1,504.13	17,954.78
Sioux	73.3	11,046.48			11,046.48	151	465.09	11,511.57
Story	66.3	50,121.12			50,121.12	756		50,121.12
Tama	70.1	16,826.99			16,826.99	240	375.88	17,202.87
Taylor	49.3	14,631.59			14,631.59	297		14,631.59
Union	51.8	16,731.08	99.90	2	16,830.98	325	756.52	17,587.50
Van Buren	46.5	15,977.31	4,717.85	11	20,695.16	445	8,676.15	29,371.31
Wapello	42.7	13,040.20	104.94	3	13,145.14	308	6,137.13	19,282.27
Warren	83.4	31,284.77	54.75	1	31,339.52	374	2,749.70	34,089.22
Washington	87.2	35,203.59	538.00	1	35,741.59	410	917.73	36,659.32
Wayne	61.8	15,933.12			15,933.12	246	2,385.78	18,318.90
Webster	85.0	51,290.12			51,290.12	603	2,092.39	53,382.51
Winnebago	48.9	10,344.21	58.50	2	10,402.71	213	327.30	10,730.01
Winnebuck	81.6	24,298.84	137.00	2	24,435.84	299	727.18	25,163.02
Woodbury	125.1	19,932.17			19,932.17	159	915.08	20,847.25
Worth	60.0	14,030.33			14,030.33	234	143.15	14,173.48
Wright	61.2	16,081.15			16,081.15	263	43.00	16,124.15
Totals	6,646.6	\$ 2,269,781.86	\$ 33,414.10	5	\$ 2,303,195.96	345	\$ 117,704.29	\$ 2,420,900.25



## IOWA STATE HIGHWAY COMMISSION

## SCHEDULE NO. 77

MEMORANDUM SHOWING TOTAL PRIMARY ROAD BONDS AUTHORIZED, ISSUED, PAID OFF, AND OUTSTANDING NOVEMBER 30, 1923.

County	Bonds Authorized	Bonds Issued	Bonds Paid Off	Bonds Outstanding Nov. 30, 1923
Black Hawk	\$ 1,500,000.00	\$ 550,000.00	\$ 550,000.00	\$ 550,000.00
Cerro Gordo	750,000.00	750,000.00	* 110,000.00	640,000.00
Clay	800,000.00			800,000.00
Clinton	1,800,000.00	1,137,000.00	175,000.00	692,000.00
Floyd	1,000,000.00	565,000.00	50,000.00	515,000.00
Greene	1,000,000.00	100,000.00		900,000.00
Hancock	1,000,000.00	575,000.00		575,000.00
Kossuth	1,500,000.00	80,000.00		80,000.00
Lyon	1,125,000.00			
Marshall	800,000.00			
O'Brien	1,500,000.00	750,000.00	100,000.00	650,000.00
Pack	2,000,000.00	1,500,000.00	180,000.00	1,320,000.00
Scott	2,000,000.00	2,000,000.00	11,100,000.00	830,000.00
Woodbury	2,000,000.00	1,600,000.00	350,000.00	1,550,000.00
Totals	\$ 19,250,000.00	\$ 9,806,000.00	\$ 2,300,000.00	\$ 7,407,000.00

\*\$10,000.00 Refunded.  
 \$100,000.00 Refunded.  
 \$800,000.00 Refunded.

## FINANCIAL STATEMENT

## SCHEDULE NO. 78

MEMORANDUM SHOWING ANTICIPATION CERTIFICATES ISSUED, REDEEMED AND OUTSTANDING NOVEMBER 30, 1923.

County	Issued and Sold	Certificates Redeemed	Outstanding November 30, 1923
Adair	\$ 35,000.00		\$ 35,000.00
Adams	92,000.00	40,000.00	52,000.00
Ashtabula	60,000.00	50,000.00	10,000.00
Benton	106,000.00	80,000.00	26,000.00
Bloom	122,500.00	10,500.00	112,000.00
Brown	50,000.00	15,000.00	35,000.00
Buchanan	142,000.00	65,000.00	77,000.00
Bulwer	67,000.00	22,000.00	45,000.00
Calhoun	30,000.00	30,000.00	
Carroll	137,250.00	65,250.00	72,000.00
Cass	46,000.00	40,000.00	25,000.00
Chickasaw	125,000.00	62,000.00	63,000.00
Clarke	33,000.00		33,000.00
Clayton	60,000.00		60,000.00
Dallas	148,000.00	70,000.00	78,000.00
Delaware	60,000.00		60,000.00
Des Moines	164,000.00	54,000.00	110,000.00
Dubuque	77,000.00		77,000.00
Dwight	82,000.00		82,000.00
Fayette	115,000.00	20,000.00	95,000.00
Franklin	219,000.00	47,000.00	172,000.00
Grundy	136,000.00	62,000.00	74,000.00
Harrison	149,700.00	40,000.00	109,700.00
Hamilton	141,000.00	70,000.00	71,000.00
Hardin	130,000.00	65,000.00	65,000.00
Howard	102,500.00	45,000.00	57,500.00
Humboldt	75,000.00	40,000.00	35,000.00
Ia	87,000.00	52,000.00	35,000.00
Jackson	50,000.00		50,000.00
Jasper	15,000.00	30,000.00	150,000.00
Jefferson	50,000.00		50,000.00
Johnson	30,000.00		30,000.00
Kossuth	222,500.00	122,500.00	100,000.00
Lea	95,000.00	25,000.00	70,000.00
Linn	108,000.00		108,000.00
Lucas	80,500.00	54,000.00	26,500.00
Madison	38,000.00		38,000.00
Malheur	72,000.00		72,000.00
Marshall	119,000.00	19,000.00	100,000.00
Mill	105,000.00	50,000.00	55,000.00
Mitchell	65,000.00	45,000.00	20,000.00
Montgomery	60,000.00	30,000.00	30,000.00
Muscatine	67,000.00	40,000.00	27,000.00
Palo Alto	67,000.00	67,000.00	
Pocahontas	42,000.00	42,000.00	
Pottawattamie	240,000.00	80,000.00	160,000.00
Ringgold	68,000.00		68,000.00
Sac	40,000.00		40,000.00
Schuyler	47,500.00	47,500.00	
Shoemaker	50,000.00		50,000.00
Story	136,000.00	25,000.00	111,000.00
Tama	90,000.00		90,000.00
Wapello	80,000.00	25,000.00	55,000.00
Washington	70,000.00		70,000.00
Wayne	30,000.00		30,000.00
Webster	161,000.00	70,000.00	91,000.00
Winnebago	75,500.00	50,000.00	25,500.00
Winnebush	117,000.00	25,000.00	92,000.00
Worth	25,000.00		25,000.00
Wright	130,000.00	58,000.00	72,000.00
Total	\$ 5,606,800.00	\$ 2,015,750.00	\$ 3,591,050.00